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THESIS

THE TABULATION OF THE SPONTANEOUS SPEAKING VOCABULARY OF 162 TWO TO FIVE-YEAR OLD CHILDREN IN A NURSERY SCHOOL.

by

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INTRODUCTION

Speech is man's greatest and most useful invention. Its essential function is the adjustment of the individual to that most fluid and unpredictable portion of his environment, viz., other persons [1].

As the function of the nursery school is to give the child an opportunity to develop natural associations with his environment and especially with children of his own age, this development may be noted through his spontaneous speech.

Due to existing conditions every vocabulary study has its limitations. In this particular situation the children come from homes with a comparatively high socio-economic level with parents manifesting great interest in the development of their children. Since language developments is such an important factor in learning the following study was undertaken.

The purpose of this study is the tabulation of the spontaneous speaking vocabulary of two to five-year old children in a nursery school set up for comparison with some of the existing vocabulary studies.

1 O'Neil, James M. and Weaver, Andrew T. Elements of Speech, Longman's, Green & Co. 1936 p. 91-92.

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CHAPTER I

SUMMARY OF PREVIOUS RESEARCH

A careful examination of educational literature reveals that the amount of research concerning compilations of the actual spontaneous speaking vocabulary of preschool children is very meager. In fact there are no word lists of group conversations of children below the kindergarten level.

During the latter part of the nineteenth century and during the first decades of the twentieth century great interest was evidenced in the study of the vocabularies of young children - this being the great era of the "Child Study Movement."

Mateer [1] reports on the volcabulary of a four-year-old boy as comprising 1020 words. At two years of age the boy made a few sounds vocally and he was three years old before he formed any connected sentences in speaking. The word count was obtained by recording every new word as it was used during the ten weeks preceding his fourth birthday. As to the two-year old, Woodcock [2] says that he has behind him a long history of babbling and vocalizations. There is a sudden rather late bursting forth of language after a long period when learning and practicing must have been mainly implicit.

1 Mateer, Florence "Vocabulary of a Four Year Old Boy," The Pedagogical Seminary Vol. XV pp. 63-74 March 1908

2 Woodcock, Louise P. Life and Ways of the Two-Year-Old, E. P. Dutton & Co., Inc. New York, 1941 pp. 90-100.

Individual variations are many in acquiring a language. The interesting feature in the study by the Gales [1] is the larger number of words in the two-year-old vocabulary of the two girls (614 and 578), than what had previously been credited to two-year-old children. In this report were listed the different words used by each child for one month before each birthday.

However, Grant [2] reports 828 words at two years, 937 words at twenty-five months, and 1201 words at twenty-six months. He obtained his count by listing the words used by his daughter at twelve months and then adding new words to the list each month. It is interesting to note that the pronoun "we" is missing from the entire list.

Pelsma [3] having recorded the speaking vocabulary of his daughter for three weeks before her second, third and fourth birthdays, considers that a five-year-old used approximately 1800 words. Pelsma found twelve words in his daughter's vocabulary at twelve months and 379 at two years, 681 at three years and 1278 at four years.

1 Gale, M. C. and H. "The Vocabularies of Three Children in One Family at Two and Three Years of Age," The Pedagogical Seminary Vol. IX, pp. 422-433 March, 1902.

2 Grant, James Richard "A Child's Vocabulary and its Growth," University of Arkansas, The Pedagogical Seminary Vol. XXII No. 2 pp. 183-203 June, 1915.

3 Pelsma, John R. "A Child's Vocabulary and Its Development," The Pedagogical Seminary Vol. XVII pp. 328-369 1910.

Snyder [1] notes observations of a two-and-a-half year old boy as to his use of the negative, progressive perception and how the child took no delight in deception. Here is also a study of his construction of complex and compound sentences. Boyd [2] finds that the life of a two-year-old is necessarily more restricted than that of a three or four-year-old and the difference is reflected in the vocabulary. Boyd's vocabulary study is by a different method. After recording a total of 1240 sentences during the last week of each month up to the second year and 1250 sentences during the last two weeks of the thirty-sixth month, and arranging the words according to parts of speech, the vocabulary count of his daughter was 1657 words at three years of age.

To compare with Boyd, Brandenburg [3] lists 2282 words for his daughter's vocabulary at three years of age. According to Brandenburg a period of ten days was set for observing and recording the words used, which was followed by a period of two weeks of searching such other child vocabularies as could be obtained as well as the dictionary to secure words that might have been used by the child had the proper situation arisen.

1 Snyder, Alice D. "Notes on the Talk of a Two-and-a-Half Year Old Boy," The Pedagogical Seminary

2 Boyd, W. "The Development of a Child's Vocabulary," University of Glasgow, The Pedagogical Seminary Vol.XXI pp. 95-124 1914

3 Brandenburg, George C. "The Language of a Three-Year-Old Child," The Pedagogical Seminary Vol. XXII pp. 89-120 1915.

When such a word was found a situation was produced intending to call forth the word. When the word "whistling" was being considered, he began whistling and the daughter was asked, "What is Papa doing?" To this she at once replied, "He is whistling."

Heilig's [1] report is most unusual as to a child's vocabulary. At 23 months of age the first day 355 words were recorded; on the second birthday the list had grown to 455 words and the additions averaged 100 words per month, but vigilance lapsed at 27 months until at 30 months the recording was resumed. On the day before her third birthday the count was 2153 words. The list is published and it includes words such as, arpeggio, chord, intervals, notes, octaves, scale, sharps, thirds, trill and base. According to the parents no attempt had ever been made to teach her anything but all of her questions were answered. All of her musical knowledge she gained by hearing her mother play or teach the piano to beginners. This is an example of the influence of environment on vocabulary.

A very well formulated plan to judge the influence of environment on vocabulary is given by Nice [2] as she reports on her daughter at 18 months, 3 years and then 4 years.

1 Heilig, Matthias R. "A Child's Vocabulary," The Pedagogical Seminary Vol. XX March, 1913. pp. 1 - 16.

2 Nice, Margaret Morse "The Development of a Child's Vocabulary in Relation to Environment, " The Pedagogical Seminary Vol. XXII No. 1 pp. 35-64 1915.

She concludes that at 18 months the child's words were largely from personal experiences and from outdoors with smaller proportions of words denoting indoor environment, people and words from stories. At three years the personal experience words rank first and outdoor words second but at four years of age the outdoor environment constitutes the largest share of her vocabulary. As to the number of words she reports 856 words at three years and 1506 words at four years of age.

Langenbeck [1] presents a study of an unusually precocious child having a vocabulary of 6837 words at five years of age. The vocabulary was recorded during the six months previous to her fifth birthday. The source of much of her knowledge is a mystery to her parents and can only be explained by her keen observation and retentive memory as well as by a power of comprehension much beyond her years.

Another study of a five-year-old girl's vocabulary by Uhrbrock [2] reveals that she used 1848 different common nouns with varying frequencies and 526 different proper nouns. The method was unique. She dictated into an Ediphone an hour a day during the six weeks preceding her fifth birthday.

1 Langenbeck, Mildred "A Study of a Five-Year-Old Child," Washington, D. C. The Pedagogical Seminary Vol. XXII pp.65-88 1915.

2 Uhrbrock, Richard Stephen "Words Most Frequently Used by a Five-Year-Old Girl," Journal of Educational Psychology Vol. XXVII 1936 and Educational Research Bulletin Vol. XIV pp. 85-97 April 17, 1935.

Bateman [1] finds in studying the language status of twin daughters and a niece, who are of the same age, that same heredity is on a par when considering physical and mental development but vocabulary development is influenced by individual differences of temperament and by different factors of environment. This study was conducted from birth to twenty-eight months of age.

Schwesinger, [2] in her study of twenty-one cases concludes that social background may be a factor in vocabulary for social background is associated with good intelligence and good intelligence is associated with good vocabulary.

Van Alstyne [3] considers vocabulary slightly more related to environment factors than are intelligence test scores. In the study of 75 three-year-old children the average extent of vocabulary comprehension was 975 words. As picture cards were used, four pictures for each of the fifty words selected, it is a test of comprehension and recognition of pictured vocabulary rather than spontaneous speaking vocabulary.

1 Bateman, W. G. "The Language Status of Three Children at the Same Ages," The Pedagogical Seminary Vol. XXIII pp.211-240 1916.

2 Schwesinger, Gladys C. "Social-Ethical Significance of Vocabulary," Teachers College, Columbia University No. 211.

4 Van Alstyne "The Environment of Three-Year-Old Children - Factors Related to Intelligence and Vocabulary Tests," Teachers College Columbia University No. 336 pp. VII-108 1929.

Study by Robinson and Conrad [1] is restricted chiefly to a study of the reliability of a method. Observations were made for twenty days among fifty children in the outdoor play yard, during free-play periods. The children ranged from 24 - 48 months in age. Raw correlation between the scores for talkativeness and for social contact is .67. Low correlation for most talking occurs in social situations. By no means all the social situations at these preschool levels, however, involve talking.

The National Committee on Reading reports in the Twenty-Fourth Yearbook [2] the commonest words in the spoken vocabulary of children up to and including six years of age. These data were secured by combining the words reported in the individual study by E. Horn of the spoken vocabulary of 80 children varying in age from one to six years. Madeleine Horn with the assistance of the kindergarten teachers of Iowa and Minneapolis, collected about 20,000 running words of the kindergarten children. P. C. Packer obtained 70,000 running words of the first grade children in Detroit.

1 Robinson, E. W. and Conrad, H. S. "The Reliability of Observations and Talkativeness and Social Contact among Nursery School Children by the "Short Time Sample Technique," Journal of Experimental Education Vol. 2 pp. 161 - 165 1933 - 1934.

2 Horn, Ernest, Horn, Madeleine and Packer, P. C. Report of National Committee on Reading "The Commonest Words in the Spoken Vocabulary of Children up to and Including Six Years of Age," National Society for the Study of Education. The Twenty-Fourth Yearbook Part I Chap. VII pp. 185-192 Public School Pub. Co. Bloomington, Ill. 1925.

These vocabulary counts were taken from the records of what the children said in connection with the activities in the more informal school periods. When the results of these three studies were put together nearly 5000 different words were found. However, many of these occurred but once or twice. In order to secure a more limited list which seemed likely to contain those words which the average first-grade child could be expected to know, all words were taken which occurred in the three investigations with a total frequency of 15 or more or in two of the three investigations with a total frequency of 25 or more. In the report the 1079 words are listed but no frequency or age is noted.

The Child Study Committee of the International Kindergarten Union [1] presents a list of 2596 words known as the IKU list, which was compiled from conversations recorded verbatim in homes and kindergartens. A set of questions was furnished to stimulate the children's vocabulary for the picture data. Some 7000 different words were found but the list contains the 2596 words with the highest frequency.

1 Child Study Committee of the International Kindergarten Union "A Study of the Vocabulary of Children Before Entering the First Grade," Washington, D. C. Baltimore, Md. pp. 3-36 1928.

Originally 2500 words were to comprise the list but the twenty-fifth hundredth word and ninety-six more had a frequency of seven so 2596 words are given. The running and individual words in each list are distributed in this way:

	Kindergarten	Picture	Home
Running words	469,555	306,639	97,072
Individual words	7,186	5,150	4,736

Frequency is given in the kindergarten list and the plan for placing a word according to its frequency is that used by Thorndike [1] and Horn [2] in their lists. That is:

1. The first number gives the thousand in which the word occurs.

2. The letter tells whether a word occurs in the first or second 500 of any thousand. "A" represents the first 500 and "b" the second 500 in any thousand.

3. The second number indicates the hundred of the 500 in which any word occurs.

4. An X in any list means the word it follows does not occur in that particular list.

1 Thorndike, E. L. The Teacher's Word Book Teachers College, Columbia University, New York

2 Horn, Ernest A Basic Writing Vocabulary, College of Education, University of Iowa, Iowa City, Iowa.

In the investigation by Smith [1] the spontaneous chatter of 83 children at play was noted, each subject being observed for an hour. The ages ranged from two to five years of age. The number of words and sentences was counted and the average length of the sentences were determined together with the frequency of the various parts of speech. There is no complete listing of the words but the sixty-seven words that have a frequency of more than a hundred are given. On this list the predominance of pronouns and verbs is noticeable. The few nouns on this list is due more to their greater variability than to their true infrequence.

Another very carefully planned study is by McCarthy [2] of 140 children ages 18 - 54 months observed at home or at nursery school. For each child fifty consecutive verbal responses were recorded. The analysis consisted of length of response, function of the response in relation to the child's environment, complexity of sentence structure and parts of speech. The lists of words are not published but the development of the language usage as analyzed shows earlier development among the children of the upper socio-economic level.

1 Smith, Madorah E. "An Investigation of the Development of the Sentence and the Extent of Vocabulary in Young Children," University of Iowa Studies Vol. III No. 5, May 15, 1926.

2 McCarthy, Dorothea The Language Developments of the Pre-School Child, Institute of Child Welfare University of Minnesota Press pp. 174, Monograph Series No. IV pp. 24-174 1930.

The most striking result is the remarkable speed of the development process that occurs at this age - from 0 to about 2500 at six years of age.

Dewey [1] says that pronunciation of words which require very accurate adjustments of muscles is a difficult task in the early stages of word learning. The power to understand words is usually more quickly gained than the power to control the vocal apparatus.

1 Dewey, John How We Think D. C. Heath & Co. Boston, Mass. pp. 224 1910.

CHAPTER II PLAN OF STUDY

1. SOURCE OF VOCABULARY

The nursery school in this study is the Sewall Avenue Nursery School located in Brookline, Massachusetts. It is a privately conducted school of which the author is the director. The parents of the children classify in the higher socio-economic levels of professional and business people. They manifest great interest in the development of their children and are in a position to give them every advantage and are most anxious to do so. The vocabulary used by the children appears impressive and considered worthy of a study.

The regular teachers together with the student teachers were ever on the alert recording vocabulary. At one time, for a period of several months, one person was assigned primarily to the particular task of writing down the words used by the children. Some of the parents recorded conversations that took place at home.

2. PLAN OF TABULATION BY AGES

The children range in ages from 2 years 3 months to 4 years 9 months at time of enrollment. The public kindergarten entrance age, without taking a test, is 4 years 9 months by October 1st. The words comprising the conversations as recorded were tabulated according to the age of the child.

During the time that the recording took place, from October 1st through June 14th the number of children in the different age groups were as follows:

Years:	2 - 3	3 - 3½	3½ - 4	4 - 4½	4½ - 5
Number of Children	18	36	41	36	31 (162)

Each month there were some children who would go into the next age group if they had a birthday or passed the ½ year mark. Though the total number is 162 it doesn't mean that there were 162 different children. The plan to have a sheet of paper for each child with the child's name and age group at the top served as a check to follow the child who hadn't had any recording on his sheet. This was found to facilitate the tabulating, for all the words on the particular sheet, were for the one age.

3. METHOD OF TABULATION

From the recordings the words were tabulated into an alphabetically arranged word list. A short vertical mark was made for each time the word appeared. Following is an example:

fire II
III III-6
IV IV-6

	total	2 - 3	3 - 3½	3½ - 4	4 - 4½	4½ - 5
fire	337	32	80	73	68	84

4. WORD DATA

Whatever sounds, colloquialisms, contractions, commercial words, inflections of nouns, verbs, pronouns, and adjectives, as well as two or more words that represent one concept in the child's mind, that were considered as words by the child were included in the word list.

The number of "running words," which means the grand total of every occurrence of each word tabulated in this study is 207,956. The number of individual words, meaning the total of different words occurring at least once is 2,792.

Instead of limiting this study to a certain frequency all words that were tabulated are included in the Word List. However, it has been impossible to tabulate all of the words that were recorded as well as recording all of the words that have been spontaneously uttered by the children. The home recordings form only a small part of the tabulations.

LIST OF WORDS

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
a	1974	238	450	463	413	410
able	114		10	20	21	63
aboard	142	10	13	45	32	42
about	85	4	6	15	25	35
above	116		8	27	43	38
accident	109	3	26	14	21	45
ache	19		4	5	2	8
acorn	10	2		3	3	2
acorns	36	5	2	6	18	5
across	17	1		8	2	6
acts	50		9	12	8	21
acted	37		8	6	13	10
acting	10				2	8
actions	2				1	1
address	9			2	3	4
aeroplane	5				2	3
afraid	10			3	2	5
after	161	12	20	44	49	36
afternoon	73		4	17	27	25
afterwards	9		1		2	6
again	107	4	15	26	27	35
against	15			2	5	8
ago	15		1	1	8	5
ah	11			3	5	3
ahead	6		1	2		3
ahold	5		1		4	
air	12		3	1	2	6
airplane	80	12	5	21	27	15
airplanes	74	1	6	32	13	22
airport	26		1	8	1	16
album	15			2	1	12
alive	7		1	1	3	2
all	528	44	108	134	139	103
all right	110	42	15	25	8	20
alligator	8			1	2	5
alligators	16		3	2	6	5
almost	43	5	12	4	15	7
alone	33	2	5	3	11	12
along	32		1	5	16	10
already	78	11	27	15	17	8
also	4		1		1	2
always	53	1	16	5	20	11
am	210	13	37	61	45	54
America	4			1	1	2
American	6				2	4
	4486					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
	4486					
an	531	48	116	110	130	127
and	838	32	167	77	234	328
angel	5			1	1	3
angels	9			4	3	2
angry	12			2	3	7
animal	31	1	5	12	8	5
animals	34		3	10	10	11
ankle	2				1	1
another	183	22	35	42	53	31
answer	47	2	10	7	13	15
ant	14		2	2	3	7
ants	32	2	9	4	12	5
any	308	14	49	87	83	75
anybody	17		1	5	5	6
anyone	16	1	3	2	6	4
any more	48	5	8	6	16	13
anything	7		2	1	2	2
anyway	24			8	6	10
apart	6		2		3	1
apartment	12		1	2	2	7
apple	97	12	15	23	21	26
apple pie	2				1	1
apples	22	3	2	5	7	5
apple sauce	5		2		3	
apple tree	39	3	2	5	11	18
appointment	12				2	10
April	17			8	3	6
apron	505	38	135	71	176	85
aprons	171	5	37	22	35	72
are	856	55	226	227	213	135
aren't	97		15	22	34	26
argue	10				6	4
arm	23		9	5	6	3
arms	2				2	
army	53		7	11	20	15
around	32	2	6	4	3	17
arrived	9				7	2
arrest	25			3	12	10
arrow	32	1	8	5	10	8
as	98		4	21	15	18
ash	2		1		1	
ashes	13	1	1	6	2	3
ashore	36				16	20
ash tray	5				5	
ask	117	8	25	22	30	32
asked	50		10	20	17	3
	8992					

	8992	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
asleep	29		12	7	7	3
aspirin	10	3			2	5
at	391	27	99	108	96	61
ate	135	20	38	16	21	40
attic	5				1	4
August	3					3
aunt	13			3	8	2
auntie	23	5	4	10	1	3
auntie's	7	2	1	4		
aunt's	11			2	2	7
auto	18		2	1	7	8
automobile	85	12	17	20	25	11
automobiles	10			1	7	2
autos	7		1	1	3	2
auto's(poss.)	3					3
avenue	8				3	5
awake	2					2
away	170	15	57	31	30	37
awful	6			2	1	3
awfully	12		1	1	2	8
awkward	5			1	1	3
ax	5			1	2	2
	9950					
baa	30	6	10	2	4	8
babies	27	1	2	7	3	14
baby	235	43	33	55	59	45
baby's(poss.)	38	2	5	12	9	10
baby's(is and has)	24	5	7	3	2	7
back	100	8	20	21	21	30
backing	4		4			
backwards	15	1	2	2	7	3
bacon	4				4	
bad	75	9	8	20	12	26
badge	15				3	12
badly	5			2		3
bag	29	5	10	7	2	5
baggage	49		4	10	15	20
baggage-man	49		5	5	23	16
bags	112	24	30	28	20	10
bah	10	10				
bake	29		5	8	6	10
baked	13			3	2	8
baker	6				4	2
	869					

		Years of Age				
	869	2-3	3-3½	3½-4	4-4½	4½-5
baking powder	13			4	2	7
ball	108	32	21	20	10	25
balloon	78	15	10	15	20	18
balloons	22		2	3	10	7
balls	21	1	5	4	3	8
banana	33	2	1	3	7	20
bananas	23	1	1	2	2	17
band	38	1	5	6	16	10
bandage	63	4	2	3	20	34
band-aid	112	5	22	30	25	30
bandeau	1	1				
bang	41	6	8	10	7	10
banged	10		1		4	5
bank	26		2	1	2	12
barber	13				5	8
barefoot	3	1			2	
barefooted	17				12	5
barn	8		1	3	2	2
barked	22		4	3	5	10
barks	29		8	2	11	8
barrel	40	4	2	3	10	21
barrette	46	2	3	8	15	18
baseball	6					6
basin	37	5	8	4	5	15
basket	61	8	3	15	10	25
basket ball	4				2	2
baskets	48	5	17	4	15	6
bat	17			3	4	10
bath	9	1	2		4	2
bathing suit	30		8	13	5	4
bathrobe	6	2		4		
bathroom	116	15	32	28	16	25
bathtub	6	4		1		1
battery	16			3	4	9
batteries	22		2	5	3	12
be	382	16	95	71	102	98
beach	58	5	10	7	12	24
beach wagon	458	45	93	80	130	110
beach wagons	135		10	20	40	65
bead	79	12	14	10	19	24
beads	185	21	30	40	42	52
bean	3				3	
bean bag	65	10	14	12	11	18
bean bags	31		5	4	10	12
bean blower	33		4	3	12	14
beans	72	6	10	18	20	18
	3515					

		Years of Age				
	3515	2-3	3-3½	3½-4	4-4½	4½-5
bear	128	3	25	20	30	20
bears	13	1	2	3	1	6
beat	35	2	11	5	5	12
beaten	4				2	2
beater	28		5	4	15	4
beating	3		1			2
beautiful	39	3	12	5	6	13
because	192	8	24	28	30	22
bed	49	2	9	11	16	11
bedroom	11			5	2	4
beds	8		2	1	2	3
bee	13			2	6	5
been	259	16	30	56	65	92
bees	2		2			
beetle	29		8	1	2	18
beets	34	2	9	5	8	10
before	90		12	20	36	22
began	6				2	4
begin	12		2	1	3	6
beginning	18		1	1	4	12
behind	15		3	2	2	8
being	3					3
believe	35		5	3	7	20
bell	75	21	8	16	5	25
bells	108	6	10	25	32	35
belong	39		3	7	11	18
belongs	8		1		3	4
belt	10		2	1	4	3
bench	14		4	3	1	6
bending	6				2	4
bent	53		13	12	10	8
beret	11				5	6
berries	19	4	2	2	5	6
berry	4	3	1			
beside	81		12	15	25	29
besides	11			8		3
best	58		11	10	12	25
bet	51			5	21	25
better	59	2	3	16	17	21
between	6		1		2	3
bib	10		2		3	5
bicycle	52		1	2	15	34
bicycles	3		1		2	
big	291	28	46	66	96	55
bigger	49		8	6	14	21
biggest	10			6		4
	5558					

		Years of Age				
	5558	2-3	3-3½	3½-4	4-4½	4½-5
bike	11		1	5	2	3
billy goat	2					2
Bingo	7				4	3
bird	37	3	4	8	16	6
bird house	23	1	2	2	8	10
birdie	24	12	10	1	1	
birdies	9	4	4	1		
birds	15		2	4	3	6
birdie's(poss.)	14	6	5	3		
bird's(poss.)	14	2	4	1	1	6
birthday	299	31	58	71	63	76
biscuit	3		1			2
bit	18	4	2	7	2	3
bites	15		4	6	2	3
biting	1			1		
black	105	7	16	21	26	35
blackboard	20	1	3	2	4	10
Black Sambo	35		12	5	10	8
blanket	241	32	40	65	29	75
blankets	60	7	6	15	7	25
bleeding	3					3
bless	117	5	25	30	32	25
blew	140	70	10	15	25	20
block	105	16	15	20	30	24
block room	162		20	25	62	55
blocks	313		25	73	80	135
blood	23		2	3	8	10
blouse	52			14	10	28
blow	111	15	30	16	20	30
blowing	80	12	15	18	10	25
blows	18		2	3	5	8
blue	210	21	39	65	33	52
blue jay	15		3	1	3	8
B. M. (Bowel (movement)	16				4	12
board	250	14	63	52	46	75
boards	121	5	12	40	26	38
boat	258	12	35	56	85	70
boat's	18		2	3	5	8
boats	28		6	5	7	10
boa constrictor	16				2	14
bologna	5				3	2
bolts	12			3	5	4
bombs	18				10	8
bone	2			2		
	8593					

		Years of Age				
	8593	2-3	3-3½	3½-4	4-4½	4½-5
bones	2				1	1
bonnet	17	3			6	8
boo	38	20			8	10
boogey	40		10	3	12	15
book	328	18	54	45	62	55
books	72	10	14	10	20	18
boom	21	10	7			4
boot	25	4	3	5	5	8
boots	57	5	4	6	16	27
born	10			5	2	3
boss	9				3	6
Boston	16		2		4	10
both	22		6	5	3	8
bother	22		2	5	5	10
bothering	39		5	6	10	18
bottle	52	8	10	6	8	20
bottles	17		5	5	3	4
bottom	14		1	4	2	7
bought	30	4	4	5	7	10
bounce	32	5	3	8	4	12
bounced	24		6	3	5	10
bow	44		6	14	10	14
bowl	40	4	5	8	11	12
bowls	3				3	
bows	2					2
bow wow	34	20	10	4		
box	119	19	22	18	28	32
boxes	91	10	15	11	30	25
boxing	12				2	10
boy	215	65	42	35	48	25
boys	87	12	20	18	25	22
boy's(Poss.)	30		5	3	12	10
bracelet	12			4	3	5
brain	4					4
brake	5				3	2
branch	20		2	6	4	8
branches	16			5	5	6
brand	6				4	2
brass	11				3	8
brave	19			2	6	11
bread	17	4	3	1	5	4
break	59		8	10	15	26
breakable	6					6
breakfast	104	10	24	15	30	25
breaking	46		8	10	16	12
breaks	89	4	25	11	25	24
breath	2					2
brick	31		5	8	12	6
	10776					

		Years of Age				
	10776	2-3	3-3½	3½-4	4-4½	4½-5
bricks	9				1	8
bridge	43	2	10	8	11	12
bridges	9			2	4	3
bright	25		6	4	5	10
bring	106	4	20	20	24	38
bringing	44		4	5	10	25
brings	46		3	15	8	20
broad	6				1	5
broadcast	15			2	5	8
broke	124	15	23	50	15	21
broken	17		3	2	2	10
broom	20		4	5	6	5
brother	49	6	2	4	12	25
brother's(is)	38		1	2	5	30
brother's(poss.)	58		2	4	10	42
brothers	6				2	4
brought	44	10	4	10	6	14
brown	102	11	10	24	32	25
brush	221	32	40	43	42	64
brushed	2				2	
brushes	42		14	12	6	10
bubble	50	10	8	10	14	8
bubble gum	52	5	10	15	12	10
bubble pipe	90	12	15	20	18	25
bubbles	102	10	12	15	25	35
bucket	2				2	
buckle	35	4	5	10	4	12
bud	10		1	2	1	6
bug	15	3	1	2	4	5
buggy	3	1		2		
bugs	18		6	1	3	8
Buick	2					2
build	287	25	65	55	60	82
building	232	14	40	38	65	75
buildings	24		6	3	5	10
built	297	20	70	35	82	90
bulb	32		6	5	11	10
bulbs	16		2	2	4	8
bull	3					3
bull fight	5				3	2
bumble bee	19	4	8	4	2	1
bump	61	25	10	6	5	15
bumped	30	10	2	5	3	10
bumps	26	5	2	8	5	6
bunch	85	4	12	10	25	34
bunnies	67	12	10	15	10	20
	13368					

		Years of Age				
	13368	2-3	3-3½	3½-4	4-4½	4½-5
bunny	584	88	93	120	147	136
bunny's(is)	42	5	5	10	12	10
bunny's(poss.)	33	2	12	6	8	5
burn	28	1	8	3	10	6
burned	15		2	3	2	8
burning	26		7	6	5	8
burnt	8			3	2	3
bus	85	12	15	20	20	18
bush	25	2	8	5	4	6
bushes	19		2	3	5	9
bust	11		3	2	1	5
busted	9		1	2	2	4
busy	17	2	4	1	3	7
but	81	5	16	11	17	32
butcher	3			2		1
butter	7	2	1	1	2	1
buttercup	8			3	5	
buttercups	2			2		
butterflies	5			2	1	2
butterfly	6			1		5
button	162	4	22	38	55	43
buttoned	24			2	4	8
buttons	8				6	2
buy	103	10	18	15	25	35
buys	19			3	6	10
by	71	1	8	15	22	25
bye	123	15	48	35	10	15
	14322					
cabbage	10		3	2	1	4
cabin	2					2
cabinet	6			1		5
caboose	19		2	3	4	10
Cadillac	7					7
cage	3				1	2
cake	105	8	10	15	30	42
cakes	55		4	6	15	30
calendar	2					2
call	27	2	4	3	8	10
calling	11			5	2	4
called	187		12	34	66	75
calls	9			3	2	4
came	99	12	27	20	22	18
camels	5		2		1	2
camp	72		3	14	25	30
camps	6			2		4
	618					

		Years of Age				
	618	2-3	3-3½	3½-4	4-4½	4½-5
can	641	43	163	135	186	174
canary	2		2			
candies	39	10	5	4	8	12
candle	26	4	6	4	3	9
candles	20	2	4	5	2	7
candlestick	6				1	5
cane	7				3	4
canes	2					2
cannibals	4					4
cannon	6				4	2
cans	41		2	6	15	18
can't	359	28	64	75	103	189
cap	6			2		4
cape	37	4	2	6	10	15
caps	63			4	25	34
captains	1				1	
car	340	70	52	60	83	75
card	150	15	20	18	35	62
cardboard	9				4	5
cards	67		15	16	12	24
care	47	1	13	7	6	10
careful	70	5	12	4	18	31
careless	11			2	3	6
carpenter	6				2	4
carriage	56	12	18	10	6	10
carriages	6		2		4	
carried	14			6	3	5
carries	7			1	4	2
carrot	95	14	20	15	25	21
carrots	234	20	45	50	64	55
carry	65	8	5	10	18	24
carrying	15	2	3	2	3	5
cars	236	34	45	35	40	82
cart	83	10	18	16	15	24
carving	14				4	10
case	7			2	1	4
casting	5		2	3		
castle	41		3	4	14	20
cat	123	8	12	28	35	40
catch	86		15	20	16	35
catches	14			4	2	8
catching	2					2
caterpillar	15		2	4	5	4
cats	18		3	8	2	5
caught	16		4	3	4	5
	3730					

		Years of Age				
	3730	2-3	3-3½	3½-4	4-4½	4½-5
cause	95	26	19	15	23	12
ceiling	8			1	4	3
celery	15	1	1	4	5	4
celiac	6					6
cellar	15	2	2	1	6	4
cement	9				4	5
cents	37	1	5	3	18	10
cereal	17	2	4	2	4	5
chain	8				2	6
chains	16		6			10
chair	301	38	60	83	75	45
Chanuka	32	2	4	6	5	15
chairs	65	1	8	10	24	22
chalk	18		2	2	4	10
chance	5				1	4
change	25		6	9	5	5
changed	5		1		1	3
charge	4					4
chase	9			2	1	6
chasing	16		2		3	11
chatter	3				1	2
check	18		2	1	2	13
checks	7				1	6
cheek	6	2			3	1
cheeks	7			1	2	4
cheese	9		3	3	1	2
cherries	14		3	2	5	4
chest	5				3	2
chew	17		4	3	6	4
chewing	13		2	3	5	3
Chicago	5				3	2
chicken	17	2	3	2	4	6
chicken pox	3				2	1
chickens	8				3	5
chickie	15	4	2	1	6	2
chickie's(is)	16	3	6	4	3	
chicks	11		3	2	1	5
chief	13		1	2	4	6
chief's(poss.)	18		2	3	5	8
child	6			1	1	4
children	126	2	25	31	26	42
children's (poss.)	24		1	3	6	14
chilly	11	1		2	3	5
chimney	249	5	28	64	80	72
chimneys	23	1	5	3	4	10
chin	13		2	6	3	2
	5111					

	5111	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
Chinese	10				6	4
chocolate	10			2	5	3
chocolates	15		3	4	3	5
choking	5				2	3
choo choo	379	120	110	72	43	34
choose	35		1	6	12	16
chop	13		2	3	6	2
chopping	10			1	7	2
chore	3	1			2	
Christmas	194	20	25	40	54	55
chug	10		6	4		
chunk	9				6	3
church	11		2	1	3	5
chute the chute	7	1				6
cigarette	5				1	4
circle	26	2	4	2	3	15
circles	16				6	10
circus	14			5	5	3
cities	3				1	2
city	7	1	1		2	3
clap	53	12	10	18	8	5
clapped	31	3	5	2	6	15
class	8			1	4	3
clay	676	65	115	106	210	180
clean	92	15	21	13	24	19
cleaned	40			4	6	30
cleaning	18		3	2	5	8
climb	177	24	30	35	45	43
climbed	41	2	6	11	10	12
climber	4				1	3
climbing	17		2	6	4	5
clip	9				6	3
cloak	5			2	3	
clock	53	12	10	8	9	14
clocks	8				2	6
close	93	9	15	11	34	24
closed	23			5	3	15
closet	32		6	3	9	14
closing	15				5	10
cloth	36		5	6	10	15
clothes	63		6	4	15	38
clothespin	22	5	3	3	6	5
clothespins	14		2	2	2	8
cloud	24	3	7	8	1	5
clouds	30	5	10	4	3	8
	7477					

		Years of Age				
	7477	2-3	3-3½	3½-4	4-4½	4½-5
clover	24	1	5	2	6	10
clown	19	1	1	5	3	9
club	2					2
coal	25		11	5	5	4
coal car	7				3	4
coal truck	52	2	6	8	15	21
coal trucks	40	3	9	15	3	10
coaster	3				1	2
coat	137	30	20	15	32	40
coats	12		2	1	6	3
cock-a-doodle-do	75	35	20	5	5	10
cockle	23		1	6	4	12
cocoa	14	4	2	3	3	2
coffee	36	16	2	7	6	5
cold	164	20	27	35	30	52
colds	9				3	6
collar	7		3		4	
collection	6		2	4		
college	19				4	15
collision	3					3
color	73	11	6	5	30	21
colored	23	3	5	2	5	8
coloring	37	5	6	4	10	12
colors	72	1	10	15	26	20
comb	8		2	3	2	1
come	207	17	42	37	65	46
comes	41	3	6	8	12	12
coming	280	12	54	60	68	86
comfortable	10				6	4
community	5					5
company	12		2	3		7
concert	59		8	5	16	30
conductor	60	9	10	10	15	16
cone	15	3	2	2	3	5
contrary	23		1	6	4	12
coo	3				3	
cook	33	4	2	7	5	15
cooked	7				3	4
cookie	51	10	4	5	12	20
cookies	26	2	4	3	5	12
cooking	8	3		2	2	1
cool	10	1	1		3	5
copy	3				2	1
cord	3				3	
	9213					

	9213	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
corduroy	35		9	5	6	15
corduroys	16		3		5	8
corn	41	6	10	10	5	10
corn meal	28		5	6	11	8
corner	35	2	10	8	5	10
corners	3					3
cost	17				11	6
cotton	11			2	7	2
couch	10			5	4	1
cough	37	5	2	6	9	15
cough drops	5				2	3
coughing	7		1		4	2
could	37	4	2	11	14	6
couldn't	103	12	20	16	20	15
count	23	1	4	3	6	8
counted	5				3	2
country	15		2		7	6
couple	9			5	2	2
course	6					6
cousin	6			3	2	1
cousins	3			1		2
cousin's	3			2	1	
cover	195	24	30	25	62	54
covered	5		2	2	1	
covers	37				2	35
cow	10	1	3	3	1	2
cowboy	36		3	15	8	10
cowboys	14		1	5	2	6
cowcatcher	4					4
cows	11		3	2	1	5
cozy	9		5	2		2
crab	4				2	2
crack	2				1	1
cracked	1					1
cracker	115	10	15	20	30	40
Cracker Jack	20	4		3	8	5
crackers	662	125	130	112	105	190
cradle	58	12	35	2	6	3
cranberries	2					2
crank	4				3	1
crash	66	18	9	5	15	19
crashed	50	4	3	8	10	25
crawl	32	2	4	5	6	15
crawling	5				1	4
crayon	352	40	55	82	72	103
crayoned	37			15	10	12
crayons	103	15	12	14	22	40
	11467					

		Years of Age				
	11467	2-3	3-3½	3½-4	4-4½	4½-5
crazy	51		1	10	15	25
cream	7			2		5
creature	7		3	1	2	1
creatures	11		11			
crease	8				2	6
creek	1				1	
crib	10	1	4	5		1
cried	24	5	3	8	5	3
crocodile	15			4	3	8
crooked	6			2		4
cross	27		3	1	5	18
crowd	28		4	2	12	10
crown	75	12	3	10	16	34
crumbs	59		6	14	21	18
crush	14	2		5	4	3
crutch	20			3	6	11
crutches	101	4	18	20	25	34
cry	122	26	5	16	30	45
cry baby	49		18	5	6	20
crying	77	5	24	20	18	10
cuckoo	7		5	2		
cucumber	3				3	
cup	177	30	40	35	46	26
cupcake	5			2		3
cupcakes	9			1	4	4
cupboard	14				5	9
cups	131	5	15	23	30	58
curl	5			3	2	
curls	9				4	5
curly	11		8	3		
curtain	22		1		9	12
curtains	3					3
custard	8			2	1	5
cut	187	16	36	39	32	64
cute	30			10	5	15
cutest	4					4
cuts	61			28	15	18
cutting	5				3	2
cycle	5			2		3
	12875					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
dad	71	2	10	4	20	35
daddy	190	30	45	25	38	52
daddies	40	16	4	10	4	6
dad's	3					3
daisies	2				2	
dame	1					1
damp	11	1			4	6
dance	14	1			5	8
danced	6				2	4
dancing	40				14	26
dandelion	7			5	2	
dandelions	14	2		1	5	8
dandy	5				1	4
dang	3		3			
danger	2				2	
dangerous	9				2	7
dare	32		4	1	4	14
dark	11		3		2	6
darker	2				1	1
darling	3				3	
darn	2					2
daughter	5			1		4
daughter-in-law	2					2
day	20		8	3	4	5
days	22			2	8	12
daytime	4		1	3		
dead	7			1	1	5
dear	27	2	5	2	4	14
decorate	18			3	5	10
decorated	9				4	5
decorations	20			2		18
deep	14			3	4	7
deeper	11				3	8
deer	18	1		6	3	8
delicious	6				1	5
delivery	14				4	10
dentist	7				5	2
department	2					2
desert	1					1
design	11				3	8
desk	9				4	5
dessert	23				8	15
developed	3					3
diamond	20			2	12	6
	794					

		Years of Age				
	794	2-3	3-3½	3½-4	4-4½	4½-5
diamonds	2					2
diaper	13			10	3	
diapers	4			4		
didcha	5		5			
didn't	297	35	52	47	73	90
die	8				3	4
died	2				2	
difficult	9				1	8
different	6					6
dig	181	10	34	45	30	62
digging	37		10	8	5	14
dime	6				4	2
ding	70	34	26	10		
ding a ling	40			6	14	20
ding dong	120		10	35	30	45
dining room	8			3		5
dinner	10			2	5	3
dip	8				3	5
diploma	29	1	5	3	6	14
dirt	12			2	7	3
dirty	120	18	20	15	22	45
dish	29	2	4	5	3	15
dishes	46	8	8	2	10	18
disturb	13	1	4		3	5
ditch	2				2	
dive	5				1	4
divide	2					2
do	863	108	125	95	210	325
doctor	134	21	16	25	40	32
doctor's	27	1	4	6	11	15
does	83	8	12	21	14	28
doesn't	44	2	5	10	15	12
dog	44	8	6	12	8	10
doggie	41	15	11	8	3	4
doggie's(poss.)	7	4	1	2		
doggies(plural)	5	2	3			
dogs	44	2	12	8	12	10
dog's(is or has)	14			2	8	4
dog's(poss.)	4				3	1
doing	95	9	15	20	31	20
doll	68	4	30	16	8	10
dollar	30		3	5	7	15
dollars	23	2	8	4	5	4
	14535					

		Years of Age				
	14535	2-3	3-3½	3½-4	4-4½	4½-5
dollies	17	3	4	5	2	3
dollie's	27	5	8	4	3	7
dolls	30	2	6	3	9	10
doll's	19	15	4			
dolly	85	27	31	20	5	2
dolly's(is or has)	18	3	4	2		
dolly's(poss.)	49	14	25	1	6	3
done	27	3	3	5	4	12
donkey	24		2		15	7
don't	499	54	69	92	109	175
door	113	16	20	15	34	28
doors	34	4	3	5	8	14
dot	4					4
dots	8				3	5
double	7				4	3
doughnuts	7	1				6
down	401	28	65	67	136	105
downstairs	54	10	4	5	15	20
down town	2				2	
dozen	5		3	2		
dragon fly	6	1				5
drank	183	18	30	45	38	52
draw	13				3	10
drawer	5				1	3
drawing	7				2	5
dreamed	8			2	3	2
dress	59	5	6	3	19	25
dressed	100	4	5	16	35	40
dresses	45	2	2	7	20	14
drew	7				4	3
dries	18				8	10
drink	222	40	35	28	64	55
drinking	65	5	10	13	15	22
drinks	11		1	1	5	4
dripping	2				2	
drive	59	4	6	10	11	28
driver	28		1	8	4	15
drivers	6			2		4
driveway	22			6	4	12
driving	13		3	2	3	5
drop	20	2	4	1	10	11
dropped	65			12	28	25
drops	5				2	3
dropping	4					4
drum	38	10	6	8	4	10
drums	7			3		4
	16988					

		Years of Age				
	16988	2-3	3-3½	3½-4	4-4½	4½-5
dry	70	12	15	10	15	18
drying	13				4	9
duck	20	4	3	6	5	2
duckety	8				2	6
duckling	9				4	5
ducklings	31			3	16	12
ducks	37	1	2	15	14	5
ducky	4					4
dump	47	4	7	10	11	15
dumpety dump	9	4	3	2		
dumps	7				3	4
dump truck	7				6	1
dust	4					4
dustpan	5				3	2
duty	12	6	2	4		
dying	3					3
	17273					
each	21			3	6	12
ear	11		3	2		6
earache	9		1	2	4	2
earlier	3				3	
earmuffs	11		1		6	4
earrings	9				1	8
ears	3					3
earth	19			3	6	10
earthworm	13		1	1	2	9
easier	2					2
easily	5				2	3
Easter	38	2	5	10	11	10
easy	20		3	1	4	12
eat	108	3	21	25	37	22
eaten	10			1	5	4
eating	18			3	8	7
eats	15		3	2	4	6
edge	8					8
egg	77	7	18	12	27	13
eggs	47	1	5	15	8	18
eight	26			3	10	13
either	6		1	1	3	1
electric	23		2	1	12	9
electricity	3					3
elephant	3				1	2
elephants	11			2	3	6
elevator	14			7	3	4
	534					

		Years of Age				
	534	2-3	3-3½	3½-4-	4-4½	4½-5
eleven	13		1	3	2	7
else	7			1	1	5
'em	18		10	5	3	
empty	33		4	5	6	18
end	8		2			6
engine	12			3	5	4
engineer	15			4	3	8
engines	4				1	3
English	7			1		6
Englishman	12			4	3	5
enough	38	6	1	4	9	18
envelope	30		2	15	8	5
envelopes	11				3	8
erase	2				2	
eraser	1				1	
escape	1					1
Eskimo	2					2
especially	6			1		5
even	30		8	7	12	3
evening	3		1		2	
ever	1					1
every	39		6	7	14	12
everybody	38	4	8	9	12	5
everyone	24		1	10	3	10
everyone's (is)	2					2
everything	13			4	3	6
everything's	4					4
every time	7				3	4
everywhere	3				2	1
excited	17					17
excuse	750	35	150	125	210	230
excercise	5				3	2
exercises	4					4
explanation	1					1
eye	8		4	3	1	
eyeglasses	20		4	3	5	8
eyes	9				6	3
	1732					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
face	18	4	2	1	8	2
faces	1					1
fact	4					4
fair	4			2	1	1
fairies	18		2	5	7	3
fairy	4				2	2
fall	30	3	8	2	11	6
falling	15		6	1	4	3
falls	9				2	7
family	4				1	3
fan	12			2	6	4
fancy	13			5	2	6
far	47	4	10	9	13	11
farm	7				2	5
farmer	73	2	15	26	18	12
farther	20			5	6	9
fashioned	11			2	3	6
fast	17				5	12
fasten	44	5	3	10	11	16
faster	20			7	5	8
fat	24			8	4	12
father	33		2	6	10	15
fathers	6				2	4
father's(poss.)	22			2	8	12
fault	26			2	10	14
faucet	37	5	6	7	9	10
feather	69	6	5	19	18	21
feathers	5				2	3
federation	3				1	2
feed	124	15	28	30	25	26
feeding	65	7	10	10	23	15
feeds	5				3	2
feel	48	2	7	15	11	13
feeling	4			1	3	
feet	25		4	10	6	5
fe fi fo fum	6			4	2	
fell	32		5	5	13	9
fellow	2					2
felt	4				1	3
fence	115	1	24	40	18	32
fender	6				2	4
fern	7			3	2	2
fetch	52	5	7	10	15	15
fertilizer	7				2	5
few	26	1	2	5	6	12
	1110					

	1110	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
fiddlers	91	6	10	25	25	25
fiddely-dum	6				3	3
field	1				1	
fierce	6				2	4
fifth	15			2	7	6
fifty	19			1	2	7
fight	11	1	1	2	4	3
fighting	3				1	2
fill	5		1		1	3
filled	10			3	5	2
filling	4				4	
filthy	13				7	6
finally	2					2
find	192	13	36	50	47	46
finding	1					1
fine	108	10	15	22	36	25
finger	87	12	18	10	16	31
finger nail	5	1		3		2
finger nails	3					3
finger paint	208	15	32	46	60	55
fingers	18		5	3	3	7
finish	15		5	5	2	3
finished	152	25	20	35	40	32
fire	337	32	80	73	68	84
fire cracker	5				1	4
fire engine	120	13	11	41	23	32
fire engines	58	4	17	12	10	15
fireman	38	5	2	16	8	7
fireman's	35		3	10	2	20
fire hose	59		6	12	23	18
firemen	31		2	10	6	15
fire place	31	3	6	9	5	8
fire station	98	12	17	25	20	24
first	66	3	9	26	17	11
fish	15	1	2	1	3	8
fishes	2				2	
fishing	3					3
fist	10		2	1	4	3
fit	48	4	6	5	19	14
fits	29	3	4	8	6	9
five	51	2	5	9	15	20
fix	81	11	15	21	13	21
fixed	30		4	12	5	9
fixing	37	2	10	6	12	7
flag	74	12	10	17	19	16
	3335					

		Years of Age				
	3335	2-3	3-3½	3½-4	4-4½	4½-5
flags	11		1	3	2	5
flames	18		2	5	8	3
flashlight	36	1	4	6	11	14
flat	15		5	3	5	2
flew	23	3	4	5	3	7
flies	66		8	21	17	20
flip flop	5				5	
floor	73	6	41	50	41	35
Florida	29	4		20	10	15
flour	59		7	10	17	21
flower	58	8	14	7	9	20
flowers	146	12	25	30	44	35
fly	79	4	8	10	31	26
flying	17	2	3	4	3	5
fold	49	4	10	8	16	15
folded	40	2	8	6	4	20
folds	3			2	1	
folks	1					1
follow	5				4	1
food	21	1	7	2	4	7
fool	31	4	6	8	3	10
fooling	34		3	11	8	12
foot	22	1	3	5	8	5
football	5			2	1	3
for	1271	136	190	270	320	355
forehead	5			2	3	
forget	8			1	3	4
forgot	22		2	7	5	8
forgotten	1					1
fork	8	1	3		1	3
forks	3			2	3	
forth	2					2
forty	1					1
fought	2				2	
found	154	12	28	34	38	42
fountain	2			1	1	
four	114	3	20	21	28	42
four and a half	17				10	7
four and three quarters	1					1
fourteen	2				1	1
fox	5				2	3
frames	3				2	1
frankforts	10			1	5	4
	16822					

		Years of Age				
	16822	2-3	3-3½	3½-4	4-4½	4½-5
freeze	2				2	
freezing	71		4	16	20	31
freight	5		3	2		
fresh	3				1	2
Friday	5		1	1	1	2
friend	48		5	9	11	23
friends	14			2	7	5
frighten	17	2	1	3	5	6
frightened	18			2	4	12
frog	20	6	5	2	3	4
frogs	8				5	3
from	153	3	19	24	45	62
front	12	1	3	2	1	5
frost	14			5	2	7
frosty	3					3
froze	3			2	1	
frozen	8				3	5
fruit	3				2	1
full	147	12	18	31	45	41
fun	25	2	3	4	3	13
funnies	11	1		4	3	3
funny	57	6	11	15	10	15
fur	10			1	4	6
furnace	12		1	2	6	3
furniture	3				1	2
furry	5				2	3
fuss	3					3
fussing	6		2	1	3	
fuzzy	19	5	1	4	8	4
	17526					
gabardine	3				3	
gagged	2					2
gallop	3				2	1
galloping	7				4	3
game	22		5	6	3	8
games	19		1	5	3	10
garage	52	5	12	11	16	8
garbage	60	3	8	10	15	23
garden	23			5	10	8
gas	10		2	1	3	4
gasoline	18	1	4	5	2	6
gas station	15		6	4	2	3
gate	4				3	1
gates	2					2
gave	72	5	8	14	25	20
	312					

		Years of Age				
	312	2-3	3-3½	3½-4	4-4½	4½-5
gee whiz	10				10	
gently	1				1	
germs	12		1	2	1	8
get	466	24	87	110	115	130
gets	39	3	7	11	10	8
getting	22	1	8	5	6	2
ghost	5	1				4
ghosts	5				3	2
giant	7		2		3	2
giant's(poss.)	1					1
gift	2					2
gingerbread	15		3	2	4	5
giraffe	8				2	6
girl	99	22	24	26	14	13
girls	18		5	3	2	8
girl's (poss.)	4			4		
give	160	22	41	52	61	84
gives	26		3	8	12	10
giving	18		4	5	3	6
glad	29	2	5	3	11	8
glass	8	1	1	1	2	3
glasses	22	1	4	5	8	4
glove	1				1	
gloves	6			1	2	3
glue	4					4
go	888	52	191	237	210	198
goat	3				1	2
gobble	12			4	2	6
God	85	10	15	15	20	25
goes	109	7	15	20	21	38
going	911	65	210	190	238	208
gold	11			3	3	5
golden	1				1	
gold fish	10	2		3	1	4
golf	2					2
gone	48	8	5	11	15	5
gonna	3					3
good	115	11	32	22	26	24
goodies	3					3
goodness	5	1			4	
good bye	189	25	36	42	41	45
good morning	152	7	25	30	50	40
good night	22	3	4	6	4	5
goody	8				2	6
goose	3	1		2		
	3881					

		Years of Age				
	3881	2-3	3-3½	3½-4	4-4½	4½-5
gosh	5			1	4	
got	221	18	38	45	78	42
gotta	6		1	1	4	
grab	4				1	3
grace	30		4	5	9	12
grade	4					4
graduated	2					2
graduation	3					3
graham	4			2	2	
grandfather	10			3	2	5
grandma	17		8	5	4	
grandma's (is)	4			2	2	
grandma's (poss.)	3				3	
grandmother	9		1	2		6
grandmother's (poss.)	14			1	5	8
grandpa	5		1	3	1	
grandpa's	2			2		
grapefruit	1					1
grapes	19			3	6	10
grass	87	8	28	13	20	21
grasshopper	15	1	3	4	5	2
gravel	3		3			
gray	92	10	16	17	25	24
great	35		2	5	10	18
green	161		35	33	48	45
grew	6			1	1	4
grocery	9			2	2	5
ground	36		3	15	7	11
group	92		5	14	31	42
groups	65			10	20	35
grow	19		3	2	5	9
growing	11			1	6	4
grows	2					2
grunt	3	1	2			
guess	12			2	3	7
guinea pigs	2				2	
gum	32	2	2	5	9	14
gun	74	2	7	16	20	29
guns	16			2	4	10
guy	2					2
	5014					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
ha ha	10		10			
hah	8	3	5			
had	706	74	155	162	180	135
hadn't	3				1	2
hair	22	2	7	3	8	2
hair cut	5				2	3
half	9		1	3	2	3
half dollar	5			1	4	
hall	5	2				3
Hallowe'en	34	4	3	5	12	10
hallway	3	3				
hamburg	1					1
hammer	23	2	3	5	5	8
hammers	2					2
hamper	1					1
hand	31	5	4	6	7	9
handkerchief	12	2	5	3	2	10
handkerchiefs	3	1				3
handle	14		1	2	4	7
handles	3		1		2	
hands	250	28	35	42	65	80
handy	4		1		3	
hang	15	1	2	1	3	8
hanging	5				2	3
happen	3				2	1
happened	54	3	2	17	10	22
happy	115	10	25	15	20	45
hard	91	5	13	16	21	36
harder	5				1	4
hardly	7		1	4	2	
has	407	18	83	108	105	93
hasn't	22		3	2	6	11
hat	97	16	11	15	30	25
hatchet	1				1	
hate	3					3
hats	5			2	1	2
haul	3					3
hauling	2		1	1		
have	1110	71	196	282	327	234
haven't	47	3	11	5	13	15
having	10		1	5	2	2
haystack	3				1	2
he	822	52	245	185	150	190
head	31	2	3	8	13	5
headache	3			1		2
	4014					

	4014	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
heads	1				1	
healthy	13				5	8
hear	55	8	10	11	7	19
heard	43	3	5	8	12	15
heart	70	12	11	18	15	14
hearts	17		2	3	7	5
heat	25		3	7	4	11
heaven	7				2	5
heavy	210	8	14	35	42	39
he'd	6			2	1	3
heel	38	3	4	10	10	11
heels	3			1	1	1
helicopter	7				3	4
he'll	46	4	10	9	10	13
hello	90	12	14	15	25	24
help	237	42	58	39	42	56
helped	22		3	6	8	5
helper	19			3	6	10
helpers	7		1	1	2	3
helping	42		3	10	8	21
helps	6				4	2
hen	16	2	2	1	5	6
her	254	13	53	61	72	55
here	533	56	94	105	168	110
here's	200	30	48	30	52	40
hers	40	4	5	13	8	10
herself	9		1	2	1	5
he's	124	19	32	21	14	38
hey	50	10	8	13	12	7
hi	37	3	4	5	20	5
hide	13		2	1	4	6
hiding	4			1	2	1
high	107	5	18	21	34	29
higher	34		2	6	13	15
highest	11			2	1	8
hill	147	12	21	30	45	39
hills	2				2	
him	162	18	23	34	42	45
himself	7	1	2	1		3
his	336	12	44	92	90	88
hit	55	5	11	9	18	12
hits	9			3	2	4
hitting	22	4	3	8	4	3
hoe	7				3	4
hold	41	8	6	9	10	8
holder	3			2	1	
holding	18	3	2	3	4	6
	7229					

		Years of Age				
	7229	2-3	3-3½	3½-4	4-4½	4½-5
holds	12		3	2	3	4
hole	109	10	15	26	25	33
holes	8			2	1	5
holiday	23		3	5	8	7
holidays	15			2	3	10
holy	3					3
home	391	44	52	63	97	135
honey	16	1		6	7	2
hook	43		11	12	8	12
hooks	5			3	2	
hoops	4	1	2		1	
hop	25	4	5	6	3	7
hope	25		1	3	6	15
hopes	3					3
hoppity hop	68	8	10	15	15	20
horn	21	3	4	3	6	5
horns	2					2
horse	37	4	3	8	12	10
horses	6			3	2	1
horse's	5	1		1		3
horseshoe	2			1		1
horseshoes	2					2
horsie	60	23	10	12	10	5
hose	12	2	1	2	4	3
hospital	79	8	13	17	21	20
hot	154	14	26	30	45	39
hotel	84	2	11	15	20	34
hour	8				1	7
hours	4					4
house	324	14	65	98	84	63
house dress	3			3		
houses	24		3	9	7	5
how	272	12	19	60	94	87
howdy	2			1	1	
how's	12			5	2	5
hug	14	2	2	5	3	2
huge	10		1		4	5
hugging	4		2		2	
Humpty Dumpty	17	1	2	2	7	5
hundred	9			2	4	3
hungry	59	8	12	6	13	20
hunt	12	2	5	3	1	1
hunting	2					2
hurrah	4				1	3
hurry	13	1	3	2	3	4
hurt	50	7	7	12	15	9
	9296					

		Years of Age				
	9296	2-3	3-3½	3½-4	4-4½	4½-5
hurting	23	5	5	7		6
hurts	26	4	3	5	8	6
husband	5					5
	9350					
I	6947	145	996	1549	1782	2475
ice	49	6	5	12	15	11
icebox	2					2
ice cream	116	8	24	20	34	30
iced	5			5		
icicles	38		2	18	10	8
I'd	36		8	5	10	13
idea	11			2	2	7
if	128		5	14	41	68
I'll	579	22	98	122	186	151
I'm	1534	97	275	410	393	359
in	973	62	134	261	241	275
indeed	1				1	
Indian	37	2	2	3	4	8
Indians	6				2	4
indoors	3					3
infection	12				4	8
infections	3					3
ink	9			3	2	4
inside	27		3	7	6	11
instead	3					3
into	83		13	22	27	21
invitation	11				4	7
invite	23			3	8	12
invited	5				1	4
iron	56	3	9	15	18	11
ironing	23			10	4	9
ironing board	11	1	2	7	1	3
is	1732	212	338	403	406	484
isn't	222	4	42	59	53	64
it	2071	90	320	483	603	575
itchy	6				2	4
it'll	16			3	5	8
its	5		1	2	1	1
it's	403	50	68	91	104	90
itself	4		2	1		1
I've	99	2	12	27	25	33
	15289					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
jack	5					5
Jack and Jill	15	1	2	5	3	4
jacket	66	4	7	18	21	16
jackets	4					4
Jack Frost	10				3	7
jack-o-lantern	89	7	10	19	25	28
jail	8				5	3
janitor	8				2	6
janitors	1					1
Japs	8			1	3	4
jar	4				2	2
jeep	47	3	6	5	15	18
jello	14			2	2	10
jelly	3				1	2
jersey	45	3	3	10	11	8
jigsaw	2					2
jingle	6			1	3	2
job	3				1	2
juice	1476	95	148	316	405	512
jump	111	12	19	24	26	30
jumped	18			5	5	8
jumping	34	1	5	11	10	7
jump rope	6				4	2
jumps	2					2
June bug	9				3	6
jungle gym	104		4	15	33	52
junk	3					3
Junket	2	1	1			
just	71	3	16	14	18	20
	2174					
keep	119	6	23	34	32	30
keeping	6				2	4
keeps	71		1	12	23	35
kennel	5	2				3
kept	27		2	4	6	15
kerchief	19				8 11	11
kettle	1					1
key	41	1	1	6	15	18
keys	15			1	4	10
kick	33	2	4	11	10	6
kicked	77	4	10	25	20	18
kicking	51		3	7	18	23
kicks	13			5	3	5
kid	2					2
kiddie car	7	4	3			
kids	3				3	
	490					

	490	Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
kill	25		2	5	10	8
killed	9				2	7
kind	94		3	22	32	37
kindergarten	46				12	34
kinds	16				8	8
king	5				2	3
kiss	11	4	1	2	3	1
kisses	17			3	7	7
kitchen	37		2	12	10	13
kite	4				2	2
kitten	3		2	1		
kittens	2					2
kitty	28	11	7	6	2	2
kitty cat	8					8
Kleenex	61	1	7	10	18	25
knee	42	1	3	4	14	20
knees	29		1	3	10	15
knew	6					6
knife	13	1	7	3		2
knitting	3					3
knives	1					1
knock	21	2	6	2	6	5
knocked	4				4	
knocking	4			2	1	1
knot	49		4	11	10	24
know	290	16	31	66	108	69
knows	7			2	3	2
	1325					
laboratory	7				1	6
lace	67	2	7	15	20	23
laces	11		6	4	1	
ladder	55	3	8	13	14	17
ladders	4				4	
ladies	3		1			2
ladies'(poss.)	1				1	
lady	12	2	2	3	2	3
lady's (poss.)	13			2	6	5
laid	17				10	7
lake	1			1		
lamb	2		1			1
lambs	5		1	1	3	
lamp	3	1		2		
landed	11				3	8
lane	1					1
lantern	3				3	
lap	2	1	1			
	218					

		Years of Age				
	218	2-3	3-3½	3½-4	4-4½	4½-5
large	3			1		
last	45	1	10	13	11	10
late	4			3	1	
later	5	1	3		1	
laugh	7	1			4	2
laughed	2					2
laughing	15		4	2	4	5
laundry	4	1			3	
law	1					1
lawn	4				1	3
lay	10		2			8
laying	1				1	
lazy	3					3
lead	2				2	
leader	9			2	4	3
leaf	2					2
leap frog	1	1				
learn	2				2	
leather	1	1				
leave	57	2	6	6	24	19
leaves	65		5	15	25	20
leaving	3		1			2
left	8	2	1	1	3	1
leg	3			1	1	1
leggings	72	2	8	18	21	23
legs	1		1			
lemonade	46	2	2	12	12	18
lessons	6				1	5
let	142	10	22	33	44	33
let's	290	4	62	66	76	82
letter	44	1	6	20	7	10
letters	41	2	9	6	15	9
letting	1					1
lettuce	29	1	3	6	11	6
library	4					4
lick	3		3			
lie	7	2	3			3
lift	8				2	6
light	33	6	5	6	10	6
lightning	1				1	
lights	25	1	3	7	8	6
like	409	55	82	120	80	72
liked	1				1	
likes	69	8	10	11	25	15
lilacs	2		2			
	1711					

		Years of Age				
	1711	2-3	3-3½	3½-4	4-4½	4½-5
lilies	2		2			
line	4			3	1	
lines	4				1	3
lining	1				1	
lion	4				1	3
lions	4			2		2
lips	1		1			
listen	52	3	5	8	16	20
little	235	28	50	35	55	67
live	6			2	3	1
lived	1					1
lives	1					1
living	1		1			
load	8				1	7
loads	3		2			1
loaf	2		2			
lock	3	1		2		
locked	3			1	2	
locker	34		6	8	8	12
lockers	1				1	
logs	3					3
lollypop	65	4	12	12	16	21
lollypops	6			2		4
long	27	2	3	5	11	6
longer	8					8
look	565	53	110	149	158	95
looked	2			1	1	
looking	14		2	3	5	4
looks	57	22	10	12		13
look it	10			2	3	5
loose	20		1	6	8	5
lose	2		1	1		
lost	52	7	9	8	12	16
lot	31	2	5	12	4	8
lots	25	1	10	5	4	5
loud	5		1	3		1
louder	1	1				
love	19	2	8	3	2	4
lovely	186	26	35	42	45	38
low	17			3	6	8
luck	2					2
lumber	4				1	3
lunch	96	2	15	22	23	34
lying	3				2	1
	3301					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
ma	7				5	2
ma'am	5			1	2	2
machine	51		2	10	17	22
machinery	5			2		3
machines	23			10	5	8
mad	24	1	1	5	5	12
made	409	23	82	112	81	111
magazine	40			15	5	20
magic	9			2		7
maid	12	1		2	3	6
mail	10	1		2	5	2
mail box	38	1	5	10	6	16
mailman	85	6	12	11	25	31
make	402	31	74	105	113	79
makes	37	1	2	3	10	21
making	139	22	28	24	32	33
mama	19	3	2	5	5	4
man	173	11	27	19	55	61
manager	1					1
manicure	25		6		10	9
man's(poss.)	16	2	2	1	4	7
man's(is and has)	47	10	6	17	8	6
many	94	13	17	26	20	18
mantelpiece	99	3	9	24	28	35
map	6			4	1	1
marble	6	2			1	3
marbles	49	6	10	7	12	14
march	57	5	11	7	14	20
March	6					6
marching	35	2	5	7	16	5
mark	2					2
marked	5				3	2
market	29		2	5	15	7
marks	2					2
marvelous	3					3
mashed	2				2	
massage	2					2
master	1					1
match	18	2	5	6	3	2
matches	14	1	1	5	1	6
matter	32	1	1	6	10	14
mattress	6				5	1
may	457	8	52	45	147	205
May	1			1		
maybe	20	1	3	2	8	6
me	1444	128	337	260	303	416
	3967					

		Years of Age				
	3967	2-3	3-3½	3½-4	4-4½	4½-5
mean	67	1	13	20	17	16
meaning	2			2		
meantime	2				1	1
means	20			7	3	10
measles	8				1	7
measure	11				5	6
meat	29			11	5	13
meat loaf	3	1			2	
medal	2		1	1		
medicine	82	8	3	22	28	21
meet	13			3		10
meeting	39		2	10	12	15
melt	62	2	10	11	20	19
melted	20			2	7	11
melting	48	1	10	12	9	16
men	47		10	6	15	21
meow	7	3			2	2
mercurochrome	57	3	4	10	16	24
merry	22	1	3	10	5	3
merry-go-round	36		7	11	10	8
mess	10				4	6
messed	12		4		3	5
messy	43		11	10	12	10
met	10		1	2	4	3
metal	10			7	1	2
Mexican	10			5	2	3
mhm	12		7	2		3
mice	1					1
Mickey Mouse	4					4
middle	10			1	1	8
middle-sized	3					3
might	49		8	12	5	24
mile	1			1		
miles	16		3	1	7	5
milk	1129	22	119	194	302	492
milkman	67	14	7	11	27	18
mill	2				1	1
million	8					8
millions	14				5	9
mind	26	3	4	3	6	10
mine	512	40	86	73	110	203
mine's (is and has)	33	2	7	6	13	5
minute	31	3	7	2	8	11
minutes	6	2		1	1	2
mirror	4				2	2
miss	3			1	2	
missed	15			1	4	10
	6584					

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		Years of Age				
	6584	2-3	3-3½	3½-4	4-4½	4½-5
Miss	1476	152	260	350	410	304
mitten	128	12	28	25	20	32
mittens	107	8	21	18	34	26
mix	48		10	15	11	12
mixed	60	2	8	15	15	20
mixing	12			4	3	5
Monday	70	20	12	6	18	14
money	65	2	11	20	5	27
Mommy	12	1		1	8	2
Mommy's	3				3	
monkey	18	2	1	5	6	4
monkeys	31	2	10	5	12	2
monster	3					3
month	3			3		
moo	5	4	1			
moon	21	2	3	10	4	2
more	380	52	48	59	126	95
morning	60	2	12	11	24	11
most	4				1	3
mother	207	22	30	27	54	74
mothers	4				3	1
mother's(poss.)	29	1	5	4	12	7
mother's(is)	46		3	6	14	23
motor	29		2	7	12	8
motor boat	21			17	2	2
motor man	20			5	3	12
motorcycle	11				11	
mountain	9		2	1	1	5
mountains	6			1		5
mouse	30		5	12	8	5
mouth	35	3	5	10	6	11
move	19		1	1	12	5
moved	16		1	2	8	5
moves	3				3	
movies	57		2	10	25	20
moving	23			4	8	11
Mr.	90	3	8	21	38	20
Mrs.	1032	43	130	260	275	324
much	67		15	8	18	26
mud	75	5	10	20	11	29
mud balls	4				4	
muddy	42	3	10	6	15	8
mud pie	13			3	8	2
muffin	5				1	4
muffins	33		2	8	11	12
Mummy	163	45	32	50	21	15
Mummy's(poss.)	41	4	5	15	7	10
	11240					

		Years of Age				
	11240	2-3	3-3½	3½-4	4-4½	4½-5
music	201	24	35	31	48	63
must	78	2	18	21	22	15
mustache	5				1	4
mustn't	30		2	8	3	18
my	1575	238	280	322	415	320
myself	66	6	10	21	17	12
	13195					
nail	13	1		7	2	3
nails	12			3	2	7
name	98	6	22	24	21	25
named	1					1
names	26		1	6	12	7
name's(is and has)	22			10	4	8
Nanna	23	8		6	5	4
Nanna's(is and has)	15	3		2	7	3
nap	58	7	15	10	16	10
naps	5			1	4	
napkin	86	5	20	18	23	20
napkins	25		2	8	10	15
nasty	3					3
naughty	60	6	12	17	15	10
near	59	7	13	11	17	11
nearly	31	2	8	3	6	12
neat	2					2
neatly	2			1	1	
neck	8	1	1	5		1
necklace	7				3	4
necktie	25		3	5	5	12
need	488	16	120	135	112	103
needle	22			7	5	10
needles	32	1	8	10	6	7
needs	43	4	10	12	7	10
neighbor	2				1	1
nest	13	2	1	5	2	3
nests	6			4		2
never	42		10	6	11	15
new	295	38	40	66	78	73
New Hampshire	3			1		2
newspaper	15			10		5
newspapers	12			3	2	7
New York	46	3	6	10	3	7
	1599					

		Years of Age				
	1599	2-3	3-3½	3½-4	4-4½	4½-5
next	79	2	16	20	24	17
nice	139	2	44	40	25	28
nicely	11			2	3	6
nicer	2					2
nickel	8	3		1	3	1
nick nack	8			4	4	
night	33			14	7	12
night time	3		3			
nine	9			2	2	5
no	806	103	165	140	193	205
nobody	19		5	4	8	2
noise	46	9	10	6	6	15
noisy	17		5	3	5	4
none	25	4	2	5	3	11
noontime	31		5	6	15	5
nope	3					3
nor	3				3	
north	5			3	2	
nose	23	2	2	16	2	1
not	393	29	82	97	78	107
nothing	58	1	5	17	15	20
now	347		88	66	106	87
number	31			15	10	6
numbers	20			5	10	5
nursery	34	3	6	5	15	5
nurse	76	2	5	26	21	22
nut	5		3	2		
nuts	42		5	10	7	20
	3872					
ocean	9		2	5		2
o'clock	13			2	6	5
of	227	17	65	58	68	72
off	303	59	52	70	85	37
office	70	2	19	12	24	13
often	5			1	2	2
oh	110	6	23	29	30	22
oil	49		10	11	15	13
O.K.	51	12	2	8	15	14
old	80	7	14	6	23	30
older	10				8	2
on	594	52	87	152	161	142
once	66	2	15	10	26	13
one	530	16	63	134	161	156
one's	22			8	4	10
	2139					

		Years of Age				
	2139	2-3	3-3½	3½-4	4-4½	4½-5
one's(poss.)	8				2	6
onion	11			4	4	3
only	71	3	5	11	18	34
oo	58	10	27	15	4	2
opaque	2					2
open	113	11	15	26	34	25
opened	29		5	4	6	14
opens	17		3	1	1	12
opening	5		1			4
or	14	1	3	3	1	6
orange	67	2	13	12	22	18
orangeade	7				4	3
oranges	3				1	2
orange juice	33		5	5	7	16
orchestra	20			7	10	3
order	9				2	7
ordered	4					4
other	130	12	30	26	36	26
otherwise	4					4
ouch	21		6	5	5	5
ought	2					2
our	106	4	17	20	36	29
ours	5				4	1
ourselves	2				1	1
out	541	41	119	125	132	124
outdoors	86	5	15	20	15	31
outfit	7				1	6
outside	258	3	27	81	65	82
oven	17	1	3	2	8	3
over	121	12	24	18	37	30
overalls	75	10	12	15	10	28
overcoat	2	1			1	
overshoe	20			4	1	15
overshoes	72	5	15	11	23	18
	4077					
pack	2			1	1	
package	29	1		7	11	10
packages	2	1		2		
page	6			2	3	1
pail	41	6	2	16	3	4
paid	8				3	5
paint	915	105	190	210	170	240
painted	66		5	15	21	25
painter	16	4		3	1	8
painting	178	21	26	41	48	42
	1263					

		Years of Age				
	1263	2-3	3-3½	3½-4	4-4½	4½-5
paintings	15				3	12
pair	3				3	
pal	2					2
pan	76	13	17	10	21	15
pancake	6		5			1
pancakes	3			1	1	1
pans	19		5	2	10	2
pansies	3		1		2	
pansy	2				2	
pants	53	3	9	18	13	10
papa	2		1	1		
paper	198	18	35	48	42	55
papers	26		5	10	5	6
parachute	2			2		
parade	11			1	2	8
pardon	70		18		20	32
parents	1				1	
park	22		6	5	3	8
parlor	8				4	4
parrot	14	1	1	7	3	2
parrots	2			2		
part	13		2	3	2	6
partner	3				1	2
party	679	23	32	134	260	230
pass	498	32	81	95	155	135
passed	28		1	5	10	12
passenger	5		1	2	1	1
past	3				1	2
paste	132	3	21	35	27	46
pasteboard	5			3		2
pasted	55		2	6	20	27
pasting	33				5	28
pat	42	4	2	10	15	11
patting	3			2	1	
patient	6				2	4
pay	19			10	6	3
peach	4		1	2		1
peaches	1	1				
peanut butter	5	1				4
peanuts	19		3	1	5	10
peek	3				2	1
peel	6		1	3		2
peep	8		3	5		
pee pee	10		5	2	1	2
pegs	3					
	3384					

		Years of Age				
	3384	2-3	3-3½	3½-4	4-4½	4½-5
pen	4	1	2		1	
pencil	22	3	2		5	12
pencils	2		1	1		
penguin	21		2	10	3	6
penicillin	3				2	1
penis	7		7			
pennies	7		5	2		
penny	12				4	8
people	53		14	15	9	15
people's	2				2	
perfume	10	2	1		5	2
person	2				2	
pest	2	1		1		
piano	62	6	17	6	23	10
piano stool	3				1	2
pick	36	2	3	5	10	16
picked	20		5	1	4	10
picking	10				3	7
pickles	1					1
picks	1				1	
phone	5		3	1	1	
phonograph	4			1	1	2
picnic	7				4	3
picture	30	3	5	4	11	7
pictures	46		1	11	10	24
pie	72		5	30	23	14
piece	115	4	14	33	18	46
pieces	15		1	10	3	1
pies	2		1	1		
pig	2	1			1	
pigs	2				2	
pigeons	7			2	1	4
piled	20			2	5	13
Pilgrim	5				1	4
piling	12			1	3	8
pillow	37	4	6	5	12	10
pillows	3				3	
pin	12	1		4	5	2
pinafore	8				2	6
pinched	6		1		1	4
pineapple	3			1	1	1
pink	18	1	5	1	5	6
pins	3				1	2
pint	1					1
pipe	4	1		1	2	
	4093					

		Years of Age				
	4093	2-3	3-3½	3½-4	4-4½	4½-5
pipes	5				1	4
pirate	2					2
pitcher	17	1	4	2	4	9
place	17		7	3	2	5
places	1					1
plaid	5			1		4
plane	11	1			4	6
planes	16			2	3	11
plant	61	4	12	13	18	14
planted	12			1	2	9
planting	5				3	2
plantings	1					1
plants	3			2	1	
plastic	5			1	1	3
plate	33	3	2	10	11	7
plates	11			4	2	5
play	477	13	35	79	145	205
played	35		4	6	10	15
playground	2					2
play house	7			1	4	2
playing	131	9	25	30	34	43
plays	11		3	1	2	5
plenty	14		2	3	6	3
please	737	51	102	184	176	224
plow	2		2			
plugged	6				4	2
pocket	16	3	4	5	2	2
pocketbook	19	2	5	3	6	3
pockets	5		1			4
point	9				3	6
points	1					1
poison	6				2	4
poked	3					3
policeman	22		5	3	2	12
policeman's	1				1	
polish	5				1	4
pond	1					1
ponder	1	1				
pony	2	1			1	
pool	1				1	
poor	10	1		3	4	2
pop corn	2				2	
popeye	2			2		
porch	225	21	46	52	41	65
porches	1			1		
post	5				3	2
	6056					

		Years of Age				
	6056	2-3	3-3½	3½-4	4-4½	4½-5
postman	3				1	2
post office	1					1
pot	2					2
potato	8		1	2	3	2
potatoes	3		1		1	1
pound	4					4
pour	161	3	24	52	34	48
poured	2				2	
pouring	5	1				4
powder	6	2	1			3
practice	1				1	
practical	1				1	
prayer	3					3
precious	2					2
present	64	3	11	12	20	21
presents	148	5	12	35	38	58
president	3					3
press	1				1	
pretend	7				1	6
pretending	4					4
prettier	2					2
pretty	80	2	13	16	22	27
pretzel	3	1				2
print	23			5	10	8
printed	7				2	5
prize	5				3	2
promised	16			6	1	9
propeller	14				2	12
protect	5				1	4
prunes	1	1				
pudding	9		2	4	2	1
puddle	6		1	1	1	3
pull	17			2	1	14
pulled	18	3	2	6	3	4
pulling	20		1	3	5	11
pulls	12		4	1	2	5
pump	13	1	1	2	3	6
pumping	2				1	1
pumpkin	16		3	5	1	7
pumpkins	19		2	3	4	10
punish	12		2	3	4	3
punished	17			6	5	6
punishment	4					4
puppy	59	14	10	12	15	8
purple	44		1	10	12	21
purse	10			2	5	3
	6909					

		Years of Age				
	6909	2-3	3-3½	3½-4	4-4½	4½-5
push	98	4	21	27	25	31
pushed	21		2	3	4	12
pushes	2				2	
pushing	43	1	5	15	7	12
pussy	5			2	3	
pussy willow	6				1	5
put	555	38	95	131	160	131
puts	30			5	15	10
putting	24	1	5	7	3	8
puzzle	63	4	12	4	19	24
puzzles	3				1	2
	7759					
quack	9				5	4
quarrel	17				7	10
quarter	14		3	1	4	6
quarters	3				1	2
quarts	1					1
queen	2				2	
queer	18			6	2	10
question	4				1	3
quick	10			2	6	2
quickly	4				3	1
quiet	9	1	1	3	2	2
quietly	32		2	7	9	14
quilt	1					1
quit	2					2
quite	9		1		3	5
	135					
rabbit	82			4	35	43
rabbits	123	6	21	24	32	40
race	4					4
racer	7		1	1	3	2
racing	10		2	3	4	1
rack	2				1	1
racket	6				4	2
radiator	12			4	3	5
radio	20	3	2	5	8	12
radish	17		1	5	7	4
radishes	6			1	3	2
rag	15		2	4	6	3
rags	5				4	1
railroad	12		1	2	4	5
rain	18	4	2	4	6	2
rainbow	5				1	4
rain cape	10			1	6	3
	354					

	354	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
raincoat	14	1	2	4	2	5
rained	6			2	3	1
raining	32	4	6	5	9	8
rains	4			2	2	
rainy	1					1
raised	5				1	4
raisin	3	1		2		
raisins	26	4	3	8	5	6
rake	14		5	4	3	2
ran	23	2	6	5	4	6
rang	13	1	1	2	5	4
rat	2					2
rather	9				6	3
raw	2					2
reach	37	2	5	7	12	11
read	246	26	47	60	45	68
reads	24	1	2	5	4	12
reading	9			4	3	2
ready	154	12	23	34	31	54
real	59		14	10	18	17
really	24		1	4	5	14
reason	5				3	2
reception	19			2	7	10
record	31	4	5	6	6	10
records	113	16	24	16	32	25
red	553	54	75	130	154	140
reds	2				1	1
refrigerator	10	2		1	3	4
register	3				1	2
regular	3				1	2
reindeer	57	7	13	12	11	14
remember	55	3	12	10	16	13
remind	6				2	4
resent	4				1	3
reservoir	3				2	1
rest	217	24	36	31	54	72
restaurant	7				3	4
resting	67		9	14	23	21
restless	8			2	1	5
ribbon	23	2	1	3	9	8
ribbons	18			5	7	6
rich	45			10	8	27
ride	134	14	24	30	26	40
riding	8		1		2	5
right	184	7	58	37	44	38
ring	41	15	7	8	5	6
ringing	13	6		2	1	4
	2690					

		Years of Age				
	2690	2-3	3-3½	3½-4	4-4½	4½-5
rings	5				3	2
rinse	3			1	1	1
rinsing	2					2
ripe	21		2	4	7	8
river	11		3	5	1	2
road	5				2	3
roast	3				3	
robin	19	4	5	3	2	4
robins	15	2	4	2	4	3
rock	14		2	4	3	5
rock-a-bye	5			3	2	
rocking	4	1			1	2
rocking-horse	22	2	5	3	6	5
rocks	15	1	1	1	4	8
rocky	1				1	
rode	6				2	4
roll	42	6	5	8	10	13
rolled	15		1	1	5	8
roller skates	18		2	3	7	6
rolling	13	2	3	1	2	5
rolling pin	3				2	1
rolls	3					3
roof	7			2	1	4
room	150	11	13	34	40	52
rooms	10			1	4	5
rooster	2				2	
rope	22	4	3	5	6	4
ropes	3					3
rose(n)	9			1	3	5
roses	6				2	4
rotten	4				1	3
round	23	1	4	3	8	6
rough	7		2		1	4
row	5				3	2
rowboat	6			1	1	4
rows	2					2
rub	12		1	3	2	6
rubber	48	4	8	5	11	20
rubbers	87	12	17	12	21	25
rug	8	3		2	1	2
rugs	2				2	
run	168	15	24	32	50	47
runners	2					2
running	29	2	3	5	7	12
runs	7				2	5
rush	3				1	2
	3557					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
saddle	2				2	
said	306	31	54	72	65	84
sail	13		2		4	7
sailboat	5					5
sailing	5				2	3
sailor	18	1	2		6	9
sailors	2					2
sails	4				3	1
salt	8	1			4	3
same	35	4	2	6	10	13
sand	221	18	42	30	58	73
sand box	250	12	45	35	82	76
sandals	6				2	4
sandwich	27			2	6	19
sandwiches	23		5		8	10
sang	12			1	5	6
Santa	172			21	75	76
Santa Claus	182	34	44	31	28	45
Santa's (is and has)	29	2	1	5	11	10
sat	54	3	5	5	22	19
Saturday	24		2	3	8	11
save	52	2	5	4	18	23
saved	18				7	11
saw	57	3	8	16	17	13
say	64	4	13	7	16	24
says	63	5	12	11	10	25
scar	3		1		2	
scare	5		1			4
scared	8		1		1	6
scar	40		7	6	16	11
scars	2		2			
school	86	12	10	17	20	27
school's	1				1	
schoolhouse	1				1	
scissors	214	25	37	35	53	64
scoop	35		2	7	14	12
scooter	13	2	1	3	4	3
scraping	2					3
scrape	1					1
scraps	3				2	1
scratch	35		5	7	11	12
scratched	5				2	3
scream	9			4	2	3
screaming	10				4	6
screen	4		1	1	2	
	2129					

	2129	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
screw	2					2
screw-driver	7		1	1	1	4
scribble	5				3	2
scribbling	20	2	5	4	2	7
scribbly	5				3	2
scrub	7				4	3
seat	24	1	6	2	5	10
seats	2					2
second	9			1	5	3
secret	6					6
see	1251	208	243	279	288	233
seed	50	8	3	7	17	15
seeds	120	9	25	30	26	30
seem	5		1			4
seems	8				2	6
seen	3				2	1
sees	1				1	
seesaw	13		3	1	5	4
sell	1				1	
selling	1				1	
send	8		1	2	3	2
sending	1					1
sends	2				2	
sent	5				1	4
separate	3				2	1
serve	7					7
service	8		1	2	2	3
set	20	4	3	6	4	3
seven	10		1		1	8
seven thirty	1		1			
several	3				2	1
sew	3					3
sewed	2				2	
sewer	2				2	
sewers	1				1	
sewing	12		3	2	2	5
sews	2					2
shade	22		2	1	8	11
shadow	4					4
shake	3				1	2
shakes	3			1	2	
shaking	3					3
shall	15		2	3	6	4
shampoo	18		4	2	7	5
shape	2					2
share	27		1	3	12	11
sharp	10		1		2	7
	3866					

		Years of Age				
	3866	2-3	3-3½	3½-4	4-4½	4½-5
shave	4				3	1
she	359	37	63	48	87	124
she'd	43		1	4	15	23
sheep	20	5	4	2	3	6
sheet	40	3	8	7	8	12
shelf	64	7	5	12	15	24
shell	6				3	3
she'll	49	4	7	6	11	21
shells	30	3	5	5	9	8
shelves	2					2
she's	54	9	6	11	15	13
shine	5				2	3
shined	16		1	4	6	5
shines	29		4	6	8	11
shining	58	5	6	12	11	24
shiny	6			1	2	3
ship	10			4	1	5
ships	2					2
shirt	31	4	2	6		19
shock	4					4
shoe	52	5	12	12	16	7
shoe lace	25			5	4	16
shoes	88	14	23	21	18	12
shoot	75	2	15	14	24	20
shooting	3				1	2
shop	5		1		2	2
shopping	55		7	11	19	18
short	20		2	3	11	4
shorter	5				2	3
shot	2					2
should	109		6	13	34	56
shoulder	2				2	
shouldn't	70		4	10	25	31
shout	6				4	2
shovel	121	18	26	25	18	34
shovels	9		2		4	3
shoveling	43		2	4	17	20
show	45	6	5	10	15	9
showed	6				4	2
shower	9	1		1	3	4
shower curtain	3	1			2	
showing	2					2
shows	7				4	3
shut	47	6	7	11	13	10
sick	61	5	11	12	17	16
side	21		5	6	6	4
sides	36	2	7	10	8	9
sidewalk	18	1	3	2	4	8
	5643					

		Years of Age				
	3866	2-3	3-3½	3½-4	4-4½	4½-5
sidewalks	3					3
sign	9		2	2	1	4
signal	2					2
signs	5				2	3
silent	1					1
silk	5				4	1
sill	1			1		
silly	59	4	6	5	21	23
silver	5				1	4
since	2					2
sing	66	10	15	11	14	16
singing	10	1	2		4	3
single	1	1		2	4	3
sings	20	4	3	2	6	5
sink	7		1	1	1	4
sinking	3				1	2
sir	4				3	1
siren	3				3	
siss	723	58	45	130	250	240
sissy	232	45	70	65	32	20
sister	32	4	2	3	8	15
sisters	3					3
sister's(poss.)	5					5
sister's(is and has)	2					2
sit	59	3	20	7	15	14
sits	3				2	1
sitting	22	3	4	2	5	8
six	48	1	1	5	11	20
sixteen	1					1
size	5		2			3
skate	3				2	1
skates	60		3	5	4	12
skating	9			4	2	3
ski	2					2
skidded	4					4
skin	4			1	2	1
skinny	3				3	
skip	18		4	7	3	4
skipping	4			1	2	1
skirt	11	2		2	1	6
skirts	4				1	3
skis	3					3
sky	7				4	3
slacks	13			3	2	8
slack suit	1		1			
slam	4	1			1	2
	7134					

		Years of Age				
	7134	2-3	3-3½	3½-4	4-4½	4½-5
slanting	2			1	1	
sled	30	2	8	5	11	4
sleds	3		1		2	
sleep	28	4	3	2	7	12
sleeping	12	1	5	1	3	2
sleeps	19	3	1	5	4	6
sleepy	6			5	1	
sleeve	21	4	2	6	5	4
sleeves	74	6	13	14	21	20
sleighing	2					2
slept	8			1	4	3
slice	10		1	3	2	4
slid	2			1	1	
slide	195	24	20	35	62	54
sliding	10			3	1	6
slip	9	1	1	2	3	2
slipped	7				4	3
slippers	2	2				
slippery	14			3	2	9
slow	3				2	1
small	26		4	5	3	14
smaller	2				1	1
smart	12	1	6	1	2	2
smell	37	1	6	10	15	5
smelled	3			1	2	
smelling	4				1	3
smells	15		1	2	5	7
smile	11			2	4	5
smiled	2				2	
smoke	29	2	5	9	5	8
smoking	1			1		
smooth	7		1	1	3	2
smoother	4				1	3
snake	31		5	7	15	4
snakes	3				3	
snap	9		3	2	4	
snapped	4			2	2	
snatched	3					3
sneeze	2	1		1		
snow	212	16	24	53	61	58
snowball	89	10	22	18	15	24
snowballs	116	6	24	21	30	35
snowing	154	12	31	25	40	46
snow man	62	4	8	15	14	21
snow man's	25	2	5	7	5	6
snow men	2				2	
snow plow	7			2	1	4
	8462					

		Years of Age				
	8462	2-3	3-3½	3½-4	4-4½	4½-5
snows	2					2
snow suit	192	25	26	38	41	62
snowy	15			6	5	4
soaking	16	6		3	2	5
soap	201	23	35	30	51	62
sock	6		2	3		1
socks	34	5	10	7	4	8
soda	2					2
soft	32	2	2	10	3	15
soften	2			1	1	
softly	4				4	
sold	3					3
soldier	40	3	6	15	6	10
soldiers	39	4	3	11	5	16
some	702	62	116	143	185	196
somebody	60	3	21	10	12	14
somebody's(poss.)	8			1	2	5
somebody's(is and has)	23		2	6	7	8
some one	26	2	5	11	5	3
some one's	17		4	3	4	6
somersault	18	2	3	2	6	5
something	115	14	12	35	31	23
sometime	5				1	4
sometimes	11			2	3	6
somewhere	7			2	1	4
song	145	13	34	42	31	25
songs	25	4	5	3	6	7
soon	30		6	12	8	4
sooper dooper	4				4	
sore	32		5	11	10	6
sorry	74	2	8	28	15	21
sound	10			7	1	2
sounds	10		2	3	1	4
soup	9	2	4		1	2
sour	2			2		
space	2					2
spaghetti	2	1		1		
spank	9		2	4		3
spanking	5			5		
spark	8				2	6
sparkle	3				1	2
sparkler	7				3	4
sparrow	3					3
sparrows	3				1	2
speak	17		2	3	7	5
speaking	9			1	2	6
	10472					

		Years of Age				
	10472	2-3	3-3½	3½-4	4-4½	4½-5
special	8			2	1	5
spectacles	3			1	2	
speed	6				2	4
speed boat	7				3	4
spell	4					4
spelled	3				1	2
spider	12		2	3	4	3
spill	2				2	
spilled	39	4	3	6	12	14
spinach	5			1	4	
splash	4	1	2		1	
splashed	10			2	2	6
splinter	15			4	3	8
splinters	11			1	4	6
spoil	18		2	5	8	3
spoiled	3				2	1
spoon	43	2	4	3	14	20
spoons	22	2	6	5	6	3
spot	1		1			
spots	2					2
spread	54		9	13	11	21
spring	17		8	2	5	2
sprinkle	4			1	1	2
sprinkler	44	1	5	10	12	16
square	5				1	4
squash	2		1	1		
squat	1		1			
squeak	36	2	5	15	8	6
squeaked	5			4		
squeaking	3				1	2
squeaky	1					1
squeeze	4	1		1	1	1
squeezed	4		1	1		2
squeezing	3				3	
squirrel	14	1	1	2	6	4
squirrels	5			2	2	1
squirt	14		1	4	3	6
squirting	4				1	3
stable	2		2			
stage	11		1	3	5	2
stairs	93	35	8	9	17	24
stairway	6			1	5	
stall	1		1			
stalled	5		2		1	2
stamp	4					4
stamps	7				2	5
stand	25	6	3	5	4	7
	11064					

		Years of Age				
	11064	2-3	3-3½	3½-4	4-4½	4½-5
standing	16	2	2	1	5	6
stands	3				1	2
star	54	10	8	15	8	13
stars	20	3	2	6	4	5
start	53		4	9	14	26
started	22		2	3	5	12
starts	2					2
station	91	1	24	20	15	31
stay	161	3	25	42	41	50
stayed	4					4
staying	2				1	1
stays	3					3
steady	2					2
steak	7				3	4
steam	7	3	2			2
steamboat	4					4
steam roller	6			3	1	2
steam shovel	8				2	6
steeple	2	1		1		
steering	6		1		1	4
stem	2					2
stems	2				1	1
step	10		3	1	3	3
stepladder	11			2	5	4
stepped	16	2	4	1	3	6
stepping	2					2
steps	9	1	1	3	2	2
stick	18	1	1	10	2	4
sticking	3					3
sticks	15	2	4	3	2	4
sticky	10		1	2	1	4
stiff	2					2
still	34		7	7	12	8
stinker	6			1	3	2
stir	4					4
stirrups	1		1			
stitches	7				3	4
stocking	22	5	4	3	4	6
stockings	8				3	5
stole	2					2
stomach	5					5
stone	11	1	5		2	3
stones	5		2		2	1
stood	3				3	
stool	5				1	4
stop	55	5	8	12	18	12
	11805					

		Years of Age				
	11805	2-3	3-3½	3½-4	4-4½	4½-5
stopped	13	2		5	2	4
stopping	2					2
stops	3			1	2	
store	25	2	5	8	3	7
stores	6			1	1	4
stories	71	13	11	9	12	26
storing	3					3
storm	3				2	1
story	131	15	23	21	30	42
stove	13	1	3	4	3	2
straight	10			4	3	3
straighten	2				1	1
strain	1					1
strange	2				2	
stranger	1					1
strap	4		2		2	
straps	3					3
straw	85	10	14	22	22	17
strawberries	2				2	
strawberry	4					4
straws	43	3	5	15	12	8
street	14	3	1	2	5	3
street car	26	4	7	6	5	4
street cars	12		1	2	7	2
streets	3					3
stretch	4					4
strike	3			2		1
strikes	5			1	1	3
string	76	13	22	15	16	10
strings	22		6	8	6	2
stripes	2					2
strips	2			1	1	
stroke	1			1		
stroller	5	1				4
strong	5		1	1		3
stronger	2					2
struck	1				1	
stubby	3					3
stuck	9		2		4	3
Studebaker	14		4		2	8
studies	2					2
stuff	5					5
stung	2					2
stunning	6				1	5
stupid	8				2	6
subway	4					4
such	3				3	
suffocating	6				2	4
	12383					

		Years of Age				
	12383	2-3	3-3½	3½-4	4-4½	4½-5
sugar	18	2		12	2	2
suit	27	1	5	6	10	5
suit-case	8		2		2	4
suits	6				4	2
summer	37	1	6	8	7	15
sun	36	4	3	5	13	11
sun porch	4					4
Sunday	9		2		3	4
Sundays	5					5
sun glasses	7				4	2
sunny	28		10	7	8	3
sunshine	5				1	4
supper	20		3	6	6	5
suppose	7			2	3	2
supposed	25		2	6	10	7
sure	23	1	5	1	10	6
surprise	33			6	7	20
suspender	9			2	4	3
suspenders	5				1	4
swam	2					2
swan	11	2	1	3	2	3
sweater	108	14	12	24	20	38
sweaters	8			3	1	4
sweating	4				2	2
sweep	14		2	4	5	3
sweeping	3				1	2
sweet	16			1	3	12
sweetie	6		3	1	2	
sweetheart	4					4
swell	5				3	2
swim	33			7	15	11
swimming	7				3	4
swimming pool	2					2
swing	144	19	20	38	25	42
swinging	11				5	6
switch	2					2
	25202					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
table	55	4	11	16	23	12
tables	22	3	5	2	7	5
tadpoles	3			2	1	
tail	8		2		2	4
tailor	1					1
tailored	1				1	
tails	2				1	1
take	508	66	75	96	109	162
taken	2		1	1		
takes	31	2	3	4	9	13
taking	34	3	11	10	2	8
talk	20	2	2	5	7	4
talking	8		2	3	1	2
talks	2		1	1		
tall	6		2			4
taller	3				2	1
tan	8			2	4	2
tangerine	2				1	1
tangerines	5			2		3
tank	1			1		
tap	5				1	4
tape	18			6	3	9
targets	7				1	6
taste	2					2
tasted	5				1	4
taxi	11			4		7
taxicab	17			5	3	9
taxis	5				1	4
tea	12			4	3	5
teach	2					2
teacher	93	12	16	11	20	34
teachers	10			3	2	5
team	1				1	
teapot	8	1		2	2	3
teapots	3		1			2
tear	13	2	1	1	3	6
teddy bear	8	1		4	2	1
teeny	1					1
teensy	2				2	
teeth	35	1	3	9	14	8
telephone	103	7	9	24	28	35
telephoned	10				4	6
telescope	9				2	7
tell	45	4	12	10	11	8
telling	2				1	1
tells	3			2	1	
	1166					

		Years of Age				
	1166	2-3	3-3½	3½-4	4-4½	4½-5
temperature	26			7	9	10
ten	16				2	14
tennis ball	4				1	3
tent	8				3	5
terrible	7		2	1	4	
than	35		3	5	16	11
thank	182	24	34	40	36	48
thanks	4					4
Thanksgiving	13	1	1	3	2	6
that	971	68	167	321	342	315
that'll	14			1	1	12
that's	500	52	84	85	105	174
the	3626	292	674	645	1092	923
their	22		4	4	3	11
them	272	14	36	72	61	89
then	141	8	21	23	15	74
there	799	35	72	260	192	240
there's(is and has)	184	15	39	22	45	63
thermometer	6				2	4
thermos	1				1	
these	156	2	15	44	38	57
they	235	4	24	35	77	95
they'd	12				5	7
they'll	13	2	4	2		5
they're	54		7	13	16	18
they've	5				1	4
thick	4		1		1	2
thicker	4					4
thimble	1		1			
thin	4				1	3
thing	84	5	17	25	13	24
things	82	3	9	14	21	35
think	274	7	20	61	84	102
thinking	3				1	2
thinks	10			2	3	5
thinner	2				1	1
thirteen	5			1		4
this	1554	95	255	380	421	403
those	108	11	23	20	28	26
though	5	1		3		
thought	10		1	5	1	3
thousand	3				1	2
thread	4			2	1	1
three	125	4	21	36	33	31
	10754					

		Years of Age				
	10754	2-3	3-3½	3½-4	4-4½	4½-5
threw	28	1	3	4	5	15
thriller	2				2	
throat	9	1			2	6
through	259	25	46	50	68	70
throw	147	4	12	23	45	63
throwing	45		3	8	11	23
throws	29	1	5	2	6	15
thumb	4			1	2	1
thump	5			4	1	
Thursday	1			1		
ticket	37	3	3	5	7	19
tickets	58	5	7	4	12	30
tickle	11		3	1	2	5
tickled	2					2
tie	101	12	18	14	22	35
tied	6			1	1	4
ties	13		3	1	5	4
tiger	10		1	3	1	5
tigers	12			4	2	6
tight	9		1	2	2	4
tighter	2			1		1
till	8			2	1	5
time	114	3	20	31	24	36
times	13		3	1	2	7
ting a ling	11			4	3	4
tiny	26	2	2	6	5	11
tipped	15	1	1	4	3	6
tippety	5				1	4
tire	15		4	2	2	7
tires	20		2	4	5	9
tired	156	14	23	35	48	36
tissue	81	4	8	17	27	25
tissues	19		3	4	8	4
to	3209	130	385	770	856	1068
toast	14	2	4	1	3	4
today	257	27	48	57	59	66
toe	4	1			3	
toes	2					2
together	15		1	3	6	5
toilet	26			5	8	13
told	75		2	6	25	42
tomato	5				2	3
tomatoes	11		1	1	4	5
tomorrow	227	36	35	44	45	67
	15997					

		Years of Age				
	15997	2-3	3-3½	3½-4	4-4½	4½-5
tongue	4			1		3
tonight	16	1	1	4	5	5
tonsilitis	2				2	
too	176	18	32	34	42	50
took	279	23	45	60	67	84
tool	2					2
tools	18			2	5	11
toot	69	15	12	8	24	10
tooth	4			1	2	1
toothbrush	5				2	3
tooth paste	4					4
top	99	20	15	16	23	25
tops	3			2		1
tore	11		3	1	2	5
torn	20		3	3	5	9
toss	7			4	1	2
touch	75	2	12	25	16	20
touched	16		2	7	3	4
touching	9			2	3	4
tour	2					2
towel	79	14	16	7	19	23
towels	99	6	24	13	31	25
tower	10			1	1	8
town	12		2	2	3	5
toy	29	4	2	6	7	10
toys	76	6	11	14	10	35
track	32	1	4	6	8	13
tracks	51	2	7	15	10	17
tractor	17			4	8	5
traffic	9				2	7
train	168	15	33	35	47	38
trains	53	2	11	15	9	16
train's (is)	27		3	4	8	12
transparent	3					3
tray	12	1		2	5	4
tree	37	4	7	12	8	6
trees	7		1	1	2	3
tremendous	3				1	2
triangle	6				2	4
tricks	4			1		3
tricky	3			3		
tricycle	127	15	12	20	42	38
tried	28	1	2	3	12	10
tries	15			2	7	6
trim	24		1	1	8	14
	17749					

		Years of Age				
	17749	2-3	3-3½	3½-4	4-4½	4½-5
trimmed	42		4	10	15	13
trimming	5				3	2
trip	11			2	5	4
trouble	6			3	1	2
truck	129	25	21	16	32	35
trucks	60	6	5	17	11	21
true	4				1	3
trunk	5				3	2
truth	6			1	1	4
try	57	2	9	15	16	15
trying	31	2	3	4	12	10
tub	2			1	1	
Tuesday	2		1		1	
tug	1					1
tulip	1				1	
tulips	6				2	4
tummy	9		2		4	3
tumbled	5				1	4
tunnel	19		2	2	3	12
tunnels	3				1	2
turkey	35	4	3	6	7	15
turkeys	7			1	2	4
turn	209	28	35	36	43	67
turned	12	1	1	2	5	3
turns	37	2	3	5	7	20
turning	2				1	1
turpentine	7				2	5
turtle	96	18	22	14	18	24
turtles	7				3	4
twelve-thirty	2			2		
twelve	13		1	3	4	5
twenty	2					2
twenty-five	7				4	3
twice	6				2	4
twins	24		1	7	12	4
twisted	5				2	3
twisting	2					2
two	185	2	30	24	53	76
typed	2			1	1	
typewriter	3				2	1
	18816					

	18816	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
ugly	3				3	
umbrella	6	2	1		2	1
umbrellas	2					2
unbutton	27		3	4	8	12
unbuttoned	11				3	8
uncle	15	2	1	2	6	4
uncle's(poss.)	3				2	1
uncle's(is and has)	4				4	
uncomfortable	2					2
uncover	4				3	1
uncovered	2					2
under	118	7	15	34	27	35
underneath	5				2	3
understand	5				1	4
underwear	5			2	3	
undo	10				6	4
undress	96		8	21	34	33
undressed	41			6	11	24
unless	14			4	3	7
untie	15			2	7	6
untied	38	1	4	5	10	18
until	73		14	13	20	26
unwind	5				1	4
unzip	4			1	2	1
unzipped	2					2
up	485	27	95	121	137	105
upon	9			2	3	4
upsidaisy	5		2	3		
upside down	6				1	5
upstairs	185	24	47	52	30	32
us	35	1	8	4	7	15
use	78	4	13	15	16	30
used	23	1	2	4	6	10
using	99	8	14	17	16	34
	1435					

		Years of Age				
		2-3	3-3½	3½-4	4-4½	4½-5
vacation	12	1	1	1	5	4
valentine	210	24	35	38	51	62
valentines	35	6	7	3	5	14
vase	6			2	1	3
veil	4				4	
vegetables	18		2	7	3	6
velvet	2					2
very	35	4	7	5	6	13
Victrola	34	2	10	8	5	9
view	2					2
violets	6			2	3	1
violin	2					2
visit	18			3	7	8
voice	3		2			1
	387					
waffles	3			2	1	
wagon	41	4	9	6	15	7
wagons	4			1	1	2
wait	106	11	17	24	20	34
waited	4				2	2
waiting	9	3	1	1	3	1
wake	17		2	4	4	7
wakes	11				2	9
waking	2				2	
walk	85	11	23	14	16	21
walked	24	2	2	3	6	11
walking	67	6	4	15	18	24
walks	11	1	3	1	2	4
wall	24	2	2	4	7	9
walls	7			3	2	2
wanna	22			3	14	5
want	1715	280	340	315	375	405
wanted	39	5	4	6	10	14
wants	148	14	16	23	40	55
warm	72	10	11	15	10	26
was	503	23	71	145	116	148
wash	226	23	28	42	51	83
washed	213	37	29	36	56	55
washes	7			1	2	4
wash cloth	15	1	2	5	4	3
washing	108	20	25	16	21	26
washing machine	7				4	3
	3490					

	3490	Years of Age 2-3	3-3½	3½-4	4-4½	4½-5
Washington's (George-poss.)	3					3
wasn't	119	6	21	20	34	38
wasps	2					2
waste	32	2	4	3	8	15
waste-basket	25		7	3	3	12
wastes	16		1	1	5	9
watch	113	16	13	23	28	33
watched	10		1	1	3	5
watching	14			3	5	6
watches	6			2		4
water	279	47	33	54	61	84
watering	5			3	1	1
waterguns	3					3
wave	9			3		6
waves	10		1	5		4
wax	6		1	2		3
waxed	3				1	2
way	131	7	21	34	38	31
ways	4				1	3
we	2105	135	331	422	596	621
weak	2	1				1
wear	68	8	11	8	18	24
wearing	16		2	6	3	5
wears	4		1		2	1
weather	5				1	4
we'd	3			1		2
wedding	28			7	5	16
Wednesday	3				1	2
wee	2		2			
wee wee	326	34	55	80	95	62
weeds	3					3
week	5		1	2	1	1
week-end	4				1	3
weeks	4			1	1	2
weigh	1					1
welcome	39	7	5	7	8	12
well	41	5	5	13	10	8
we'll	102	8	8	21	20	45
went	376	16	55	86	116	103
were	178	19	28	37	41	53
we're	94	2	5	10	35	42
weren't	19			4	7	8
wet	233	24	53	19	72	65
we've	56	2	8	20	11	15
	7997					

		Years of Age				
	7997	2-3	3-3½	3½-4	4-4½	4½-5
what	974	84	104	155	251	380
whatever	2					2
what's	360	46	53	76	81	104
whee	20				10	10
wheel	64	4	13	10	27	10
wheelbarrow	14	2	3	2	4	3
wheels	41	4	5	5	11	16
wheel's(is)	2				2	
when	751	53	94	150	260	194
whisper	4					4
whenever	1					1
where	792	38	103	195	211	245
where'd	5				3	2
where's	150	22	23	30	34	41
whether	2	1			1	
which	21	1	1	4	3	12
while	2				1	1
whiskers	23	2	2	4	7	8
whisper	1					1
whistle	11		2	1	3	5
whistling	2					2
white	11	1	1	2	4	3
who	129	8	18	34	33	36
whoa	2				2	
whole	76	5	6	30	10	25
whom	4				1	3
whoo	4			4		
who's	22	3	2	2	7	8
whose	197	26	35	53	38	45
why	646	195	103	150	114	84
wide	11		3	2	2	4
wider	2				2	
wig	1					1
wiggle	6			1	1	4
wiggles	2					2
will	574	25	92	117	132	208
win	2				1	1
wind(n.)	17	4	1	3	2	7
wind(v.)	3					3
winding	5		1			4
window	36	5	8	7	6	10
windows	8		2	2	1	3
windshield	2			1		1
windy	6				2	4
wing	1					1
wings	3				1	2
	13099					

		Years of Age				
	13099	2-3	3-3½	3½-4	4-4½	4½-5
winter	9			4	2	3
wipe	58	26	3	8	6	15
wiped	5				1	4
wire	7				2	5
wires	6			3	1	2
wish	44		7	15	6	15
wishes	3				2	1
witch	6			1	2	3
witches	2				1	1
with	421	11	60	74	141	135
without	8		2	1	1	4
woke	7		1	1	2	3
wolf	19	1	3	7	3	5
woman	6			1	2	3
woman's(poss.)	2					2
women's	1		1			
won	3					3
wonder	15		3	2	4	6
wonderful	9	1			5	3
won't	117	5	18	17	36	41
wood	9		1	2	1	5
wooden	1					1
woodpecker	1		1			
woods	5			1	2	2
wool	10	2	1	1	1	5
woolen	17	3	2		5	7
word	4				1	3
words	7				2	5
wore	37	2	7	4	8	16
work	26	4	3	2	2	15
worked	6			2	1	3
working	23	4	2	3	3	11
works	15			2	4	9
world	3					3
worm	17			2	7	8
worms	57	3	7	10	16	21
worse	3				2	1
would	75	7	15	12	16	15
wouldn't	35		1	3	12	19
wrap	5			1	1	3
wreck	5		1	1	1	2
wrecked	15		1	4	3	7
wretched	2			2		
wrist-watch	13	2	1	3	2	5
write	111	23	14	22	17	35
writing	57	2	12	14	18	11
	14406					

		Years of Age				
	14406	2-3	3-3½	3½-4	4-4½	4½-5
wrong	16			3	5	8
wrote	7				2	5
	14425					
X-ray	4				1	3
X-rays	8				2	6
xylophone	8			1	3	4
	20					
yah	56	5	11	15	18	7
yard	38	1	3	4	16	14
yarn	2					2
yawn	1	1				
year	15				4	11
years	66	3	11	14	16	22
yellow	157	14	31	37	41	34
yep	5			3	2	
yes	199	28	35	32	53	51
yes'm	4					4
yesterday	47		8	7	14	18
yet	47	4	9	8	11	15
you	2399	212	590	508	586	503
you'd	7				3	4
you'll	30		3	5	8	14
young	3					3
your	358	12	44	82	104	116
you're	30		2	6	7	15
yours	71	4	9	11	20	27
yourself	19			2	5	12
you've	13			1	3	9
	3569					
zebra	7			1	2	4
zip	8		2	1	2	3
zipper	39		4	10	11	14
zippered	4				1	3
zoo	18	3	4	2	2	7
	76					

CHAPTER IV

COMPARISON WITH EXISTING GROUP LISTS

1. HIGHEST FREQUENCY COMPARISON

As there are no tabulations of the spontaneous speaking vocabularies of groups of children from two to five years of age obtainable, no direct comparisons can be made. In her study, Smith [1] lists the words with a frequency of over 100. The list is as follows:

I	2543	can	401	mine	170
is	1611	got	398	he	162
it	1041	no	370	too	148
you	955	and	343	baby	147
that	790	one	334	train	145
do	787	look	324	take	145
a an	747	up	320	your	143
this	712	make	317	out	142
not n't	674	in	317	play	140
the	666	now	316	mama	137
here	632	will	315	at	135
to	627	let	312	her	130
my	569	down	301	to	130
want	542	going	284	she	128
go	518	we	275	of	120
have	481	come	268	know	115
me	469	what	267	sit	114
see	459	put	243	little	110
on	442	some	208	for	109
oh	429	yes	200	way	106
there	428	all	188	with	104
get	422	where	188	over	101
		big	171		

1 Smith, Madorah E. "An Investigation of the Development of the Sentence and the Extent of Vocabulary in Young Children," University of Iowa Studies Vol. III No. 5 pp. 69 - 71.

ONE HUNDRED WORDS IN THE ORDER OF HIGHEST FREQUENCY

1	I	6947	51	out	541
2	the	3626	52	an	531
3	to	3209	53	one	530
4	you	2399	54	here	523
5	we	2105	55	mine	512
6	it	2071	56	all	508
7	a	1974	57	take	508
8	is	1732	58	apron	505
9	want	1715	59	was	503
10	my	1575	60	that's	500
11	this	1554	61	don't	499
12	I'm	1534	62	pass	498
13	juice	1476	63	need	488
14	Miss	1476	64	up	485
15	me	1444	65	play	477
16	for	1271	66	get	466
17	see	1251	67	beach wagon	458
18	milk	1186	68	may	457
19	have	1110	69	made	434
20	Mrs.	1032	70	with	421
21	what	974	71	like	409
22	in	974	72	has	407
23	that	971	73	it's	403
24	going	911	74	make	402
25	go	888	75	down	401
26	do	863	76	not	393
27	are	856	77	at	391
28	and	838	78	home	391
29	he	822	79	be	382
30	no	806	80	more	380
31	there	799	81	choo choo	379
32	where	792	82	went	376
33	when	751	83	what's	360
34	excuse	750	84	can't	359
35	please	737	85	she	359
36	siss	723	86	your	358
37	had	706	87	crayon	352
38	some	702	88	now	347
39	party	679	89	car	340
40	clay	676	90	fire	337
41	crackers	662	91	his	336
42	why	646	92	book	328
43	can	641	93	wee wee	326
44	on	594	94	house	324
45	bunny	584	95	blocks	313
46	I'll	579	96	any	308
47	will	574	97	said	306
48	look	565	98	off	303
49	put	555	99	chair	301
50	red	553	100	birthday	299

Words that appear on both lists among the first 67 of highest frequency are:

a	do	here	me	out	the	we
all	for	I	mine	play	there	what
an	get	in	my	see	this	where
and	go	is	no	some	to	will
can	going	it	on	take	up	you
	have	look	one	that	want	

Words that appear on Smith's list among the first 67 of highest frequency but do not appear on the present list of similar frequency:

at	big	her	make	of	sit	with
baby	come	know	mama	oh	too	yes
be	down	let	not	over	train	your
	got	little	now	put	way	

Words that appear on the present study list among the first 67 of highest frequency but do not appear on Smith's list of similar frequency:

apron	bunny	excuse	I'm	Mrs.	please	that's
are	play	had	juice	need	put	was
beach	crackers	he	milk	party	red	when
wagon	don't	I'll	Miss	pass	siss	why

2. WORD TABULATION COMPARISONS.

As there is a word list of the kindergarten children's speaking vocabulary, known as the IKU list [1], the following lists are compiled for comparison.

1 Child Study Committee of the International Kindergarten Union "A Study of the Vocabulary of Children Before Entering the First Grade," Washington, D. C. Baltimore, Md. pp. 3-36 1928.

COMPARISON OF IKU LIST WITH PRESENT STUDY

Words Appearing on IKU List but not in Present Study [1].

absent
act
air rifle
alike
alley
angleworms
autumn
awhile

bakery
basement
bathing
bowl
beef
beg
Bible
bill
billy goats
birch
blackbird
blackbirds
blacksmith
blessing
blind
bloom
bloomers
blossoms
blossom
bluebells
bluebird
bluebirds
bob-white
body
bone
bookkeeper
bossy
bouquet
brownie
brownies

buffalo
buffet
buggies
bugle
bulldog
bullets
bun
buns
bureau
buttermilk
buttonholes

cab
calf
California
calves
camel
candy
canoe
canvas
capitol
captain
cardinal
cardinals
carnations
carpet
carbird
catcher
cave
cedar
cent
center
certainly
cherry
chestnuts
China
Chinamen
chopped
churn
clear

coasters
coconut
coop
cop
copy
cork
cosmos
cottage
counter
crayola
croaked
cross-eyed
crow
crowded
crumbles
cube
cubes

daisy
dam
dates
December
decoration
depot
dock
doilies
doily
dough
doughnut
dove
dream
dreamt
dresser
dressmaker
drill
drown
drowned
duck's
Duluth
Dutch

eagle
early
east
eighteen
England
except
excused
expect

false
false face
farmer's(poss.)
fed
ferry
fiddle
fifteen
flicker
floors
flop
flowerpot
Ford
fringe

gee
geese
geranium
goats
God's(poss.)
Goldilocks
golly
goods
gown
grain
grains
grape
gravy
guinea

hallooed
hare
hay
headed
heck
hem
hickory
hitch
hitched
huh
hung
Iowa

jack-in-the-pulpit
jacks
January
jaw
jay
Jesus
jig
July
June

kiddo
kites
kitties
knight
knights
know

land
lark
lavender
learned
lemon
lesson
lever
licking
lid
lilac
Lincoln
lit
loaves
log
looky

maker
mamma's
manger
manual
maple
martin's
meadow
miller
mistake
movie
mule

nasturtium
negro
negroes
neither
nightgown

nights
nineteen
nineteen twenty six
noon
note
November

oak
oars
oat
oatmeal
October
one's(is or has)
onions
oriole
owl

pa
paddle
paints
parasol
pasture
patch
pattern
peanut
pear
pears
peas
peck
peg
Peter Pan
Peter Rabbit
petticoat
pianos
pigeon
pile
Pilgrims
plain
platter
plowing
plum
plums
pointed
poisoned
poke
pole
police
ponies
pop

porridge
prayers
prettiest
punch
punched
pussy willows

rainbow
ranch
recess
redbreast
red-headed
red-winged
robin redbreast
roller
romper
rung

sack
sacks
Saint Nicholas
sake
salad
salute
sandpaper
sand pile
sand table
San Francisco
Santa's (poss.)
sauce
saucer
saucers
saying
scabs
scarlet
screens
sea
season
self
setting
seventeen
shears
shed
shepherds
shoemaker
skid
sleigh
slipper
smokestack
snail
so
south

sow
spade
spin
sponge
squares
starter
steal
stitch
strip
stuffed
sucker
Sunday school
sweet peas
sword

tablecloth
tag
tambourine
tardy
tassel
teddy
teeter
teeter totter
tennis
tents
thirty
thirty one
thicket
tick tock
tin
tip
'tis
toothpick
trace
trade
tramp
trick
troll
trough
turnip
turnips
twenty-eight
twenty-four
twenty-nine
twenty-seven
twenty-six
twenty-three
twenty-two
twin

um
uptown

valley
varnish
vegetable
vines
violet

waist
walnuts
war
warms
Washington
watermelon
west
wheat
wheeling
whoever
wild
willow
windmill
windmills
wren

COMPARISON OF IKU LIST WITH PRESENT STUDY

Words Appearing in Present Study but not on IKU List [1].

able
accident
acts
acting
actions
aeroplane
afterwards
ahold
airport
album
all right
ankle
ants
any more
apple pie
apple sauce
apple tree
appointment
argue
army
arrived
ash
ashes
ashore
ash tray
aspirin
August
awake
awkward

badly
baggage-man
bah
baking powder
bandage
band-aid
bandeau
banged
barefoot
barked
barks
barrette
basin
basket-ball
bathing suit
bathrobe
battery
batteries
beach wagon
beach wagons
bean blower
beater
beetle
beginning
bending
beret
berry
besides
Bingo
birdie's(poss.)
biting
Black Sambo
blankets
bleeding
block room
B.M.(Bowel movement)
boat's(poss.)
boa constrictor
bologna
bolts
bombs
bones
boogey
Boston
bothering
bottle
bounced
bow wow
brain
brass
breakable
breath
bridges
broad
broadcast
brother's(is)
bubble
bubble gum
bubble pipe
buckle
buildings
bulb
bull
bull fight
bumps
bunny's(is)
bunny's(poss.)

Cadillac
calling
camp
candies
canes
cannibals
captains
carriages
carving
casting
celiac
cents
cereal
Chanuka
charge
chatter
check
checks
cheek
chewing
chickie
chickie's(is)
chief's(poss.)
chilly
Chinese
choking
chore
chug
chute the chute
cigarette
climber
clip
closing
clothespin
coal car
coal truck
coal trucks
cockle
colds
collection
collision
comfortable
community

1 Op. Cit. p.

concert
contrary
cord
corduroy
corduroys
corn meal
cough drops
coughing
cozy
cracked
Cracker Jack
crash
crashed
crawling
crayoned
creature
creatures
crib
crocodile
crush
crutch
crutches
cry baby
cucumber
cup cake
cup cakes
curl
custard
cycle

dame
damp
dang
dangerous
dare
darker
daughter
daughter-in-law
daytime
deeper
delicious
desert
dessert
developed
diamond
diaper
diapers
didcha
difficult
ding a ling
dip
diploma
disturb
dive
divide
doggie's(poss.)
doggies(plural)
dog's(is or has)
dog's(poss.)
dollies
dolly's(is or has)
dolly's(poss.)
dots
dragon fly
dries
dripping
drivers
driveway
drops
drying
duckety
ducking
duckling
ducklings
ducky
dumpety dump
dump truck
dustpan
dusty

earache
earlier
earmuffs
earrings
earthworm
easier
easily
elevator
'em
Englishman
enveloped
escape
especially
every one's(is)
everything's
every time
excited
exercise
exercises
explanation
eyeglasses

fact
fashioned
fault
federation
feeling
fe fi fo fum
fender
fetch
fertilizer
fiddlers
fiddley-dum
fierce
fifth
filthy
finally
finding
finger nail
finger paint
fire cracker
fire engines
fire hose
fire station
fist
flames
flashlight
flip flop
Florida
fooling
forehead
four and a half
four and three quarters
frames
frankforts
freezing
frighten
frightened
frogs
frosty
funnies
furry
fuss
fussing

gabardine
gagged
gas station
gently
ghost
ghosts
giant's(poss.)

glove
gold fish
gonna
goodies
goodness
gotta
grace
graduated
graduation
gravel
group
groups
grunt
guinea pigs

hair cut
half dollar
hallway
hamburg
hamper
handles
handy
happen
happened
harder
headache
heat
heaven
helicopter
highest
hitting
holder
holiday
holidays
holy
hoops
hopes
hoppity hop
horse's
hour
hours
house dress
howdy
hug
huge
hugging
hurting
husband

icebox
iced
indeed
indoors
infection
infections
ink
invited
ironing board
itchy

jack
jacket
jackets
janitor
Japs
jeep
jersey
jigsaw
jingle
jump rope
June bug
jungle gym
Junket

keeping
kennel
kerchief
keys
kicking
kisses
Kleenex
knocking

laboratory
laces
landed
lane
later
law
laying
leap frog
leaving
leggings
lemonade
lessons
letting
lick
lilac
lining
loads
lockers
lugs
lolly pop
lolly pops
look it
lose
louder

magic
manager
manicure
mantelpiece
map
marvelous
mashed
massage
master
meaning
meantime
meat loaf
medal
mercurochrome
messed
messy
metal
Mexican
Mickey Mouse
mile
million
millions
mirror
mitten
mixing
Mommy
Mommy's
monster
motor boat
motorman
motorcycle
moves
mud balls
mud pie
muffin
muffins
Mummy
Mummy's(poss.)

Nanna
Nanna's(is or Has)
naps
nasty
neat
neatly
necklace

New Hampshire
newspapers
nicely
nick nack
night time
noontime
nope
nursery

oh
O.K.
older
opaque
opening
orangeade
orange juice
order
ordered
otherwise
outfit
overcoat
overshoe
overshoes

packages
paid
painter
paintings
pal
parachute
parents
parlor
pasting
patient
patting
peanut butter
pee pee
penguin
penicillin
penis
person
pest
piano stool
phone
phonograph
piled
Pilgrim
piling
pinafore
pint
pirate
pitcher
plaid
planes
plantings
plastic
plenty
plugged
points
poison
poked
policeman's
ponder
pool
popeye
porches
poured
pouring
practice
practical
prayer
precious
pretending
pretzel
promised
protect
prunes
pudding
pumping
punish
punished
pumishment
pushes
puzzle
puzzles

quarrel
quarters
quarts
queer
question
quickly

racer
racing
racket
rain cape
raincoat
raised
reads
reception
records
refrigerator
register
remind
resent
reservoir
resturant
resting
restless
ringing
rinse
rinsing
rock-a-bye
rocky
roller skates
rolling pin
rough
row boat
runners
rush

saddle
sand box
Santa's(is or has)
scar
scars
school's
scoop
scraping
scratched
scream
screaming
screen
screw
screw-driver
scribbling
scribbly
scrub
seems
separate
service
seven thirty
sewer
sewers
shade
shampoo
share
shave
shells
shock
shoe lace
shopping

shout
shower
shower curtain
silent
sill
silly
since
single
siren
siss
sissy
ski
skidded
skirts
slacks
slack suit
slam
sleighing
smart
smelled
smiled
smoking
smoother
snap
snapped
snatched
snow man's
snow plow
snow suit
snowy
soaking
soften
softly
some one
sooper dooper
spaghetti
spark
sparkle
sparkler
speaking
special
spectacles
speed boat
spelled
splash
splinters
sprinkler
squat
squeaked
squeaking
squeaky
squeezing
squirting
stable
stairway
stall
stalled
staying
steady
steam roller
steam shovel
stepladder
stepping
stinker
stirrups
strain
strange
stranger
strap
straps
stretch
strike
stroke
stroller
stronger
stubby
Studebaker
studies
stunning
stupid
subway
suffocating
suit-case
sun porch
Sundays
sun glasses
suspenders
swam
swan
sweaters
sweetie
sweetheart

tadpoles
tailored
taller
tangerine
tangerines
tape
targets
taste
taxicab
teapot
teapots
teensy
telephoned
telescope
temperature
tennis ball
thermometer
thermos
thicker
thriller
throat
throws
thump
ticket
tickle
tickled
tighter
ting a ling
tippety
tires
tissues
toe
tonsilitis
toss
touching
tour
towels
traffic
transparent
tremendous
tricks
tricky
tries
trip
trouble
truth
tummy
tumbled
turtles
twelve-thirty
twisted
twisting
typed
typewriter

ugly
unbutton
unbuttoned
uncle's(is or has)
uncomfortable
uncover

uncovered
understand
undo
undress
undressed
untied
unwind
unzip
unzipped
upsidaisy

veil
view
voice

waffles
waking
wanna
wash cloth
washing machine
wasps
waste-basket
watches
watering
waterguns
waxed
weak
wearing
wee wee
week-end
whatever
wheel's(is)
whisper
whistling
whoo
wider
wig
wiggle
wiggles
winding
windshield
woman's(poss.)
women's
wonderful
woolen
worse
wrecked
wretched
wrist-watch

x-ray
x-rays

yawn
yep

zebra
zip
zipper
zippered

3. NUMERICAL COUNT ALPHABETICALLY AND INDIVIDUAL LISTS COMPARISON.

	A 3-year-old child's numerical count [1]	Individual word count in present study	Number of running words in present study
a	76	113	9950
b	194	74	14322
c	187	282	12875
d	120	149	17273
e	42	64	1732
f	97	162	17526
g	63	100	5014
h	112	141	9350
i	24	37	15289
j	18	29	2174
k	34	43	1325
l	98	89	3301
m	99	144	13195
n	51	62	3872
o	46	48	4077
p	161	203	7059
q	6	15	135
r	93	110	5557
s	299	456	25202
t	160	220	18816
u	19	44	1435
v	11	14	387
w	132	165	14425
x	0	3	20
y	11	21	3569
z	0	5	76
	2153	2792	207956

1 Heilig, Matthias R. "Child's Vocabulary," The Pedagogical Seminary Vol. XX March 1913 pp. 1 - 16, Florence Chandler, Worcester, Mass.

CHAPTER V

CONCLUSION

What we can conclude from this study of the spontaneous speaking vocabulary of children from two to five years of age, is that we must consider that their English is far from being established and with the process of mastering pronunciation at hand, they make mistakes in grammar and lack essential words that they will have to learn later. To what extent this is influenced by their chronological age, mental development, personal experiences and environmental factors, may be considered and judged from further study. However, with the first developments of social group reactions, speech is a basic agency for happy and satisfactory group relationships.

From the summary of previous research we find that numerous lists have been published of the speaking vocabularies of individual children but very little appears available regarding the preschool groups. The present study is submitted as a tabulation of the spontaneous speaking vocabulary of groups of children from two to five years of age in a nursery school environment with the hope that further research be encouraged and that this may help pave the way.

CHAPTER VI

SUGGESTIONS FOR FURTHER RESEARCH

A study similar to the present one could be conducted among nursery school children:

1. In a different type of organization, i.e. an all day nursery school versis single session nursery school.

2. Where home environment differs, i.e. vocabulary of young children from homes of lower income levels.

3. To compare group vocabularies of retarded children with group vocabularies of normal children.

4. To compare group vocabularies of very precocious children with vocabularies of normal development.

5. To obtain a supplementary list of low frequency words.

6. To add to and enlarge the present study.

In order to study language development of nursery school children the analyzing of these studies could be conducted to:

1. Determine length of responses and influencing factors.

2. To differentiate word meanings by parts of speech.

3. To study sentence structure, phrases and clauses at different age levels.

4. Classify speech sounds according to frequency of use.

5. Plan word study in teaching English to non-English speaking children.

6. Plan lessons for hard of hearing children and for children with speech defects.

7. Justify attendance at nursery school for language development.

BIBLIOGRAPHY

Bateman, W. G. "The Language Status of Three Children at the Same Ages," Pedagogical Seminary Vol. XXIII pp. 211-240 1916.

Boyd, William, "The Development of a Child's Vocabulary," University of Glasgow, The Pedagogical Seminary Vol. XXI pp. 95 - 124 1914.

Brandenburg, George C. "The Language of a Three Year Old Child," The Pedagogical Seminary, Vol. XXII pp. 89 - 120 1915.

Child Study Committee of the International Kindergarten Union, "A Study of the Vocabulary of Children Before Entering the First Grade," Washington, D. C. pp. 3-36.

Dewey, John, How We Think, D. C. Heath & Co. Boston, Mass. 224 pages, 1910.

Enright, Elizabeth L. Analysis of Kindergarten Children's Speaking Vocabulary in Relation to First Grade Reading Needs, Master's Thesis, Boston University, 1943.

Gale, M. C. and H. "The Vocabularies of Three Children in One Family at Two and Three Years of Age," The Pedagogical Seminary, Vol. IX pp. 422-433 March 1902.

Gessell, Arnold and Ilg, Francis L. Infant and Child in The Culture of Today, Harper & Brothers, New York, 1943. pp. V - 399.

Gessell, Arnold and Lord, Elizabeth E. Pedagogical Seminary " A Psychological Comparison of Nursery School Children from Homes of Low and High Economic Status," Vol. 34, 1927 Worcester, Mass. pp. 399 - 456.

Grant, James Richards, "A Child's Vocabulary and Its Development," University of Arkansas, The Pedagogical Seminary Vol. XXII, No. 2, pp. 183 - 203, June 1915.

Heilig, Matthias R. "A Child's Vocabulary," The Pedagogical Seminary, Vol. XX, pp. 1 - 16 March 1913

Horn, Ernest, Horn, Madeleine and Packer, P. C. Report of The National Committee on Reading, "The Commonest Words in the Spoken Vocabulary of Children up and Including Six Years of Age," National Society for the Study of Education. The Twenty-Fourth Yearbook, Part I, Chapter 7, pp. 185 - 192. Public School Pub. Co. Bloomington, Ill. 1925.

Horn, Ernest A Basic Writing Vocabulary, College of Education University of Iowa, Iowa City, Iowa.

Issacs, Susan The Nursery Years, George Routledge & Sons, Ltd. London, 1932 pp. V - 138.

Langenbeck, Mildred "A Study of a Five-Year-Old Child," Washington, D. C. The Pedagogical Seminary Vol. XXII pp. 65-88 1915.

Mateer, Florence "Vocabulary of a Four Year Old Boy," The Pedagogical Seminary Vol. XV pp. 63-74 March 1908.

McCarthy, Dorothea, The Language Developments of the Pre-School Child, Institute of Child Welfare University of Minnesota Press pp. 174, Monograph Series No. IV pp. 24-174 1930

Nice, Margaret Morse "The Development of a Child's Vocabulary in Relation to Environment," The Pedagogical Seminary Vol. XXII No. 1 pp. 35-64 1915.

O'Neil, James and Weaver, Andrew T. Elements of Speech, Longman's, Green & Co. 1936 p. 91 - 92.

Pelsma, John R. "A Child's Vocabulary and Its Development," The Pedagogical Seminary Vol. XVII, pp. 328-369 1910

Robinson, E. W. and Conrad, H. S. "The Reliability of Observations and Talkativeness and Social Contact among Nursery School Children by the "Short Time Sample Technique," Journal of Experimental Education Vol. 2 pp. 161-165 1933-1934.

Schwesinger, Gladys C. "Social-Ethical Significance of Vocabulary," Teachers College, Columbia University No. 211.

Smith, Madorah, E. "An Investigation of the Development of the Sentence and the Extent of Vocabulary in Young Children," University of Iowa Studies Vol. III No. 5, May 15, 1926.

Snyder, Alice D. "Notes on the Talk of a Two-and-a-Half Year Old Boy," The Pedagogical Seminary Vol. XXI pp. 412-424 1914.

Thorndike, E. L. The Teacher's Word Book Teachers College, Columbia University, New York.

Uhrbrock, Richard Stephen, "Words Most Frequently Used by a Five-Year-Old Girl," Journal of Educational Psychology Vol. XXVII 1936 and Educational Research Bulletin Vol. XIV pp. 85-97 April 17, 1935.

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